

Datasheet for ABIN6719573  
**anti-GSTM1 antibody (DyLight 550)**



[Go to Product page](#)

## Overview

|              |                                                  |
|--------------|--------------------------------------------------|
| Quantity:    | 100 µg                                           |
| Target:      | GSTM1                                            |
| Reactivity:  | Human                                            |
| Host:        | Mouse                                            |
| Clonality:   | Monoclonal                                       |
| Conjugate:   | This GSTM1 antibody is conjugated to DyLight 550 |
| Application: | Flow Cytometry (FACS)                            |

## Product Details

|                             |                                                                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                    | Anti-Human GSTM1 DyLight® 550 conjugated Antibody(monoclonal, 11F2)                                                                                                                         |
| Immunogen:                  | A synthetic peptide corresponding to a sequence in the middle region of human GSTM1, which shares 70.6% and 73.5% amino acid (aa) sequence identity with mouse and rat GSTM1, respectively. |
| Sequence:                   | EEEKIRVDIL ,ENQTMDNMQ LGMICYNPEF EKLK                                                                                                                                                       |
| Clone:                      | 11F2                                                                                                                                                                                        |
| Isotype:                    | IgG1                                                                                                                                                                                        |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                    |
| Characteristics:            | Anti-Human GSTM1 DyLight® 550 conjugated Antibody (monoclonal, 11F2) (ABIN5693233)-Dyl550. Tested in Flow Cytometry applications. This antibody reacts with Human.                          |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | GSTM1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alternative Name: | GSTM1 ( <a href="#">GSTM1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Background:       | <p>Synonyms: Glutathione S-transferase Mu 1, GST HB subunit 4, GST class-mu 1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GSTM1, GST1</p> <p>Tissue Specificity: Liver (at protein level).</p> <p>Background: Glutathione S-transferase Mu 1 (gene name GSTM1) is a human glutathione S-transferase. Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Null mutations of this class mu gene have been linked with an increase in a number of cancers, likely due to an increased susceptibility to environmental toxins and carcinogens. Multiple protein isoforms are encoded by transcript variants of this gene.</p> |
| Molecular Weight: | 39 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene ID:          | 2944                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt:          | <a href="#">P09488</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pathways:         | <a href="#">Negative Regulation of Transporter Activity</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | <p>Flow Cytometry (Fixed), 1-3 µg/1x10<sup>6</sup> cells<sup>1</sup>. Carless, M. A., Lea, R. A., Curran, J. E., Appleyard, B., Gaffney, P., Green, A., Griffiths, L. R. TheGSTM1 null genotype confers an increased risk for solar keratosis development in an Australian Caucasian population. J. Invest. Derm. 119: 1373-1378, 2002. 2. Zhong, S., Wyllie, A. H., Barnes, D., Wolf, C. R., Spurr, N. K. Relationship between theGSTM1 genetic polymorphism and susceptibility to bladder, breast and colon cancer.Carcinogenesis 14: 1821-1824, 1993.</p> |
| Comment:           | Other applications have not been tested. Optimal dilutions should be determined by end users.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | Lot specific                                                                                                           |
| Buffer:            | Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na <sub>2</sub> HPO <sub>4</sub> , 0.02 % Sodium azide.            |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                                 |
| Storage Comment:   | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.                   |