

Datasheet for ABIN7654663  
**anti-GZMB antibody (AA 73-187) (CF®640R)**



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## Overview

|                      |                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                         |
| Target:              | GZMB                                                                                                                           |
| Binding Specificity: | AA 73-187                                                                                                                      |
| Reactivity:          | Human                                                                                                                          |
| Host:                | Mouse                                                                                                                          |
| Clonality:           | Monoclonal                                                                                                                     |
| Conjugate:           | This GZMB antibody is conjugated to CF®640R                                                                                    |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

## Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Granzyme B (NK/T-Cell Lymphoma Marker)(GZMB/3014), CF640R conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen:       | Recombinant fragment of human GZMB protein (around aa 73-187)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clone:           | GZMB-3014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype:         | IgG2b, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Characteristics: | Granzyme B is a member of the granule serine protease family stored specifically in NK cells or cytotoxic T cells. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. Granzyme B is crucial for the rapid induction of target cell apoptosis by CTLs in the cell-mediated immune response. Granzyme B is useful as a marker in |

## Product Details

the identification of NK/T-cell lymphomas. High percentages of cytotoxic T-cells have been shown to be an unfavorable prognostic indicator in Hodgkin's Disease. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | GZMB                                                                                                                                                                                                                                                                                                                                                        |
| Alternative Name: | Granzyme B                                                                                                                                                                                                                                                                                                                                                  |
| Background:       | Synonyms: Cathepsin G-like 1, CCPI, CGL1, CSPB, CTLA-1, CTSG1, Cytotoxic serine protease B, Cytotoxic T lymphocyte associated serine esterase 1, Cytotoxic T-lymphocyte proteinase 2, Fragmentin-2, GRB, Human lymphocyte protein (Hlp), Lymphocyte protease, SECT, T-cell serine protease 1-3E<br>Gene Symbol: GZMB<br>Tissue Expression: NK cells T-cells |
| Molecular Weight: | 29-32 kDa                                                                                                                                                                                                                                                                                                                                                   |
| Gene ID:          | 3002                                                                                                                                                                                                                                                                                                                                                        |
| UniProt:          | <a href="#">P10144</a>                                                                                                                                                                                                                                                                                                                                      |
| Pathways:         | <a href="#">Apoptosis, Caspase Cascade in Apoptosis</a>                                                                                                                                                                                                                                                                                                     |

## Application Details

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|--------------------|--------------------------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator.                   |
| Comment:           | Positive Control: A431 cells. Human tonsil, spleen or Hodgkin Lymphoma tissue (IHC). |
| Restrictions:      | For Research Use only                                                                |

## Handling

|                |                              |
|----------------|------------------------------|
| Format:        | Liquid                       |
| Concentration: | 0.1 mg/mL                    |
| Buffer:        | PBS, 0.1 % BSA, 0.05 % azide |

## Handling

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Preservative:      | Sodium azide                                                                                                                         |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.               |
| Handling Advice:   | Protect from light                                                                                                                   |
| Storage:           | 4 °C                                                                                                                                 |
| Storage Comment:   | Stable at room temperature or 37°C for 7 days.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:       | 24 months                                                                                                                            |