# ANTIBODIES ONLINE

Datasheet for ABIN653362
## anti-GSTa2 antibody (N-Term)

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## Overview

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| Quantity: | 400 µL |
| Target: | GSTa2 |
| Binding Specificity: | AA 1-30, N-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This GSTa2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

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| Immunogen: | This GSTA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GSTA2. |
| Clone: | RB24006 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification. |

## Target Details

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| Target: | GSTa2 |
| Alternative Name: | GSTA2 (GSTa2 Products) |
| Background: | Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct |

## Target Details

supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes 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 some drugs. 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-tranferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation.

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| Molecular Weight: | 25664 |
| Gene ID: | 2939 |
| NCBI Accession: | NP_000837 |
| UniProt: | P09210 |

## Application Details

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| Application Notes: | WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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: | 4 °C,-20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |

## Publications

Product cited in:

Huang, Guo, Li, Zhang: "Activation of Wnt/β-catenin signalling via GSK3 inhibitors direct differentiation of human adipose stem cells into functional hepatocytes." in: **Scientific reports**, Vol. 7, pp. 40716, (2018) (PubMed).

Li, Yuan, Li, Liu, Hua, Lu, Zhang: "Direct differentiation of homogeneous human adipose stem cells into functional hepatocytes by mimicking liver embryogenesis." in: **Journal of cellular physiology**, Vol. 229, Issue 6, pp. 801-12, (2014) (PubMed).
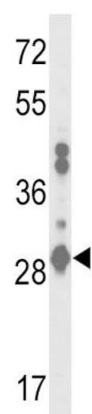
## Images
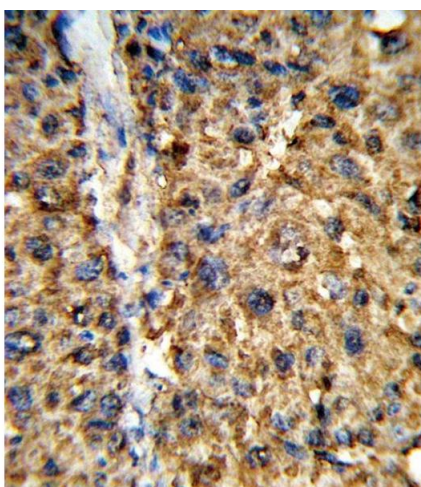


**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with GSTA2 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.
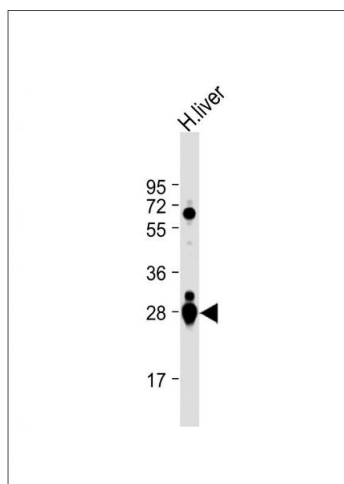


**Western Blotting**

**Image 2.** Anti-GSTA2 Antibody (N-term) at 1:1000 dilution + human liver lysate Lysates/proteins at 20 μg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

# Images



## Western Blotting

**Image 3.** Western blot analysis of GSTA2 Antibody (N-term) (ABIN653362 and ABIN2842838) in MDA-M cell line lysates (35 μg/lane). GSTA2 (arrow) was detected using the purified Pab.