

**Anti-GSTM3 Picoband Antibody**  
**Catalog # ABO10285****Specification**

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**Anti-GSTM3 Picoband Antibody - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P21266</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for GSTM3 detection. Tested with WB, IHC-P, Direct ELISA in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-GSTM3 Picoband Antibody - Additional Information**

**Gene ID** 2947

**Other Names**

Glutathione S-transferase Mu 3, 2.5.1.18, GST class-mu 3, GSTM3-3, hGSTM3-3, GSTM3, GST5

**Application Details**

Western blot, 0.1-0.5 µg/ml<br> Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml<br> Direct ELISA, 0.1-0.5 µg/ml<br>

**Subcellular Localization**

Cytoplasm.

**Tissue Specificity**

Testis and brain.

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived human GSTM3 recombinant protein (Position: E93-Q206).

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and**

thawing.

## **Anti-GSTM3 Picoband Antibody - Protein Information**

**Name** GSTM3

**Synonyms** GST5

### **Function**

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. May govern uptake and detoxification of both endogenous compounds and xenobiotics at the testis and brain blood barriers.

### **Cellular Location**

Cytoplasm.

### **Tissue Location**

Testis and brain.

## **Anti-GSTM3 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Anti-GSTM3 Picoband Antibody - Images**

## **Anti-GSTM3 Picoband Antibody - Background**

Glutathione S-transferase M3 (brain), also known as GSTM3, is an enzyme which in humans is encoded by the GSTM3 gene. 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. Mutations of this class mu gene have been linked with a slight increase in a number of cancers, likely due to exposure with environmental toxins.