

Anti-GSTM1 Picoband Antibody
Catalog # ABO12860

Specification

Anti-GSTM1 Picoband Antibody - Product Information

Application	WB
Primary Accession	P09488
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for GSTM1 detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

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

Anti-GSTM1 Picoband Antibody - Additional Information

Gene ID 2944

Other Names

Glutathione S-transferase Mu 1, 2.5.1.18, GST HB subunit 4, GST class-mu 1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GSTM1, GST1

Application Details

Western blot, 0.1-0.5 µg/ml

Subcellular Localization

Cytoplasm.

Tissue Specificity

Liver (at protein level).

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence of human GSTM1 (EEEKIRVDILENQTM DNHMQLGMICYNPEFEKLK).

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C; for one year. After reconstitution, 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-GSTM1 Picoband Antibody - Protein Information

Name GSTM1 ([HGNC:4632](#))

Synonyms GST1

Function

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2) (PubMed:[9084911](http://www.uniprot.org/citations/9084911) target="_blank">9084911). Participates in the formation of novel hepxilin regioisomers (PubMed:[21046276](http://www.uniprot.org/citations/21046276) target="_blank">21046276).

Cellular Location

Cytoplasm.

Tissue Location

Liver (at protein level).

Anti-GSTM1 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-GSTM1 Picoband Antibody - Images

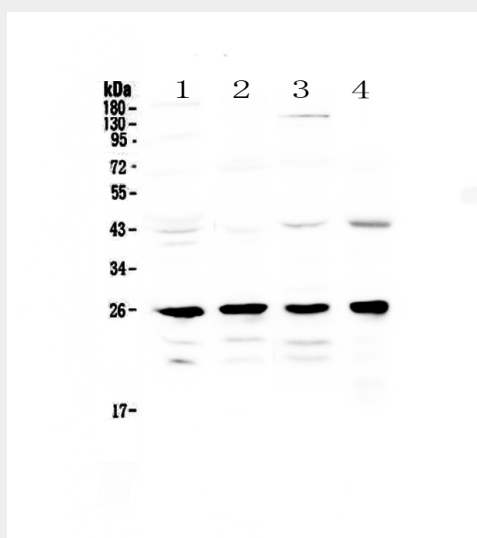


Figure 1. Western blot analysis of GSTM1 using anti-GSTM1 antibody (ABO12860).

Anti-GSTM1 Picoband Antibody - 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.