

Rabbit Anti-GST1 antibody

SL0663R

Product Name GST1

Chinese Name 谷胱甘肽转移酶抗体

Alias Glutathione S-Transferase Mu 1; Glutathione S-Transferase M1; GST HB Subunit 4; GST Class-Mu 1; EC 2.5.1.18; GSTM1a-1a; GSTM1b-1b; GSTM1-1; GST1; GTH4; S-(Hydroxyalkyl)Glutathione Lyase; Glutathione S-Aralkyltransferase; Glutathione S-Alkyltransferase; Glutathione S-Aryltransferase; HB Subunit 4; GTM1; MU-1; H-B; MU; GSTM1_HUMAN;

Research Area Tumour Cell biology immunology Signal transduction

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 26kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human GST1: 151-218/218

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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. [provided by RefSeq, Jul 2008]

Function:

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.

**Product
Detail**

Subunit:

Homodimer.

Subcellular Location:

Cytoplasm

Tissue Specificity:

Liver (at protein level).

Similarity:

Belongs to the GST superfamily. Mu family.

SWISS:

P09488

Gene ID:

2944

Database links:

HGNC: [4632](#) Human

Entrez Gene: [2944](#) Human

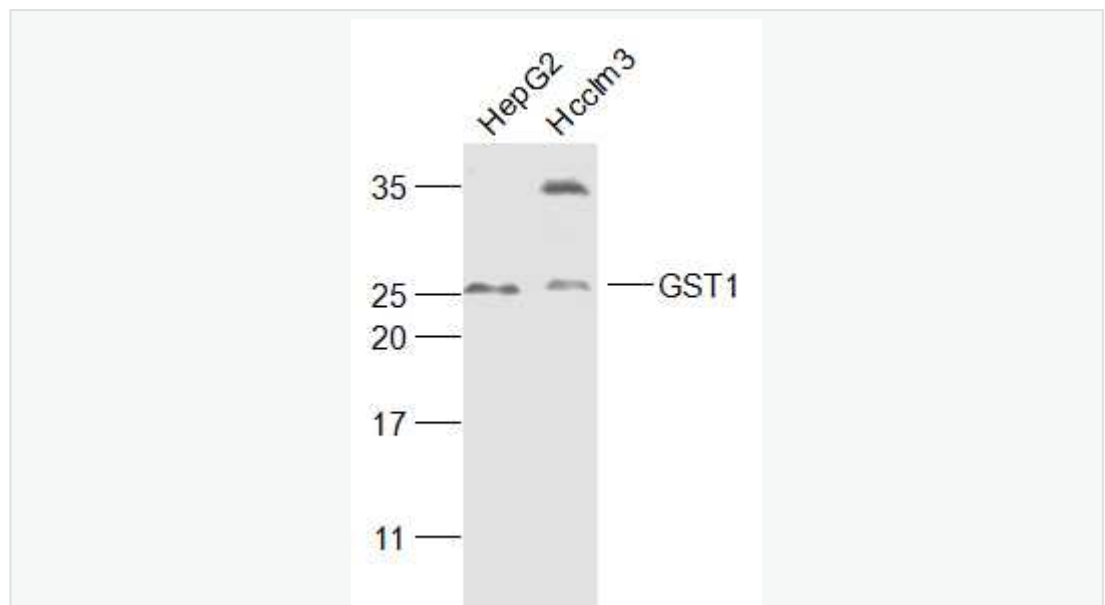
Entrez Gene: [14862](#) Mouse

UniProtKB: [P09488](#) Human

UniProtKB: [P10649](#) Mouse

OMIM: [138350](#) Human

**Product
Picture**



Sample:

HepG2(Human) Cell Lysate at 30 ug

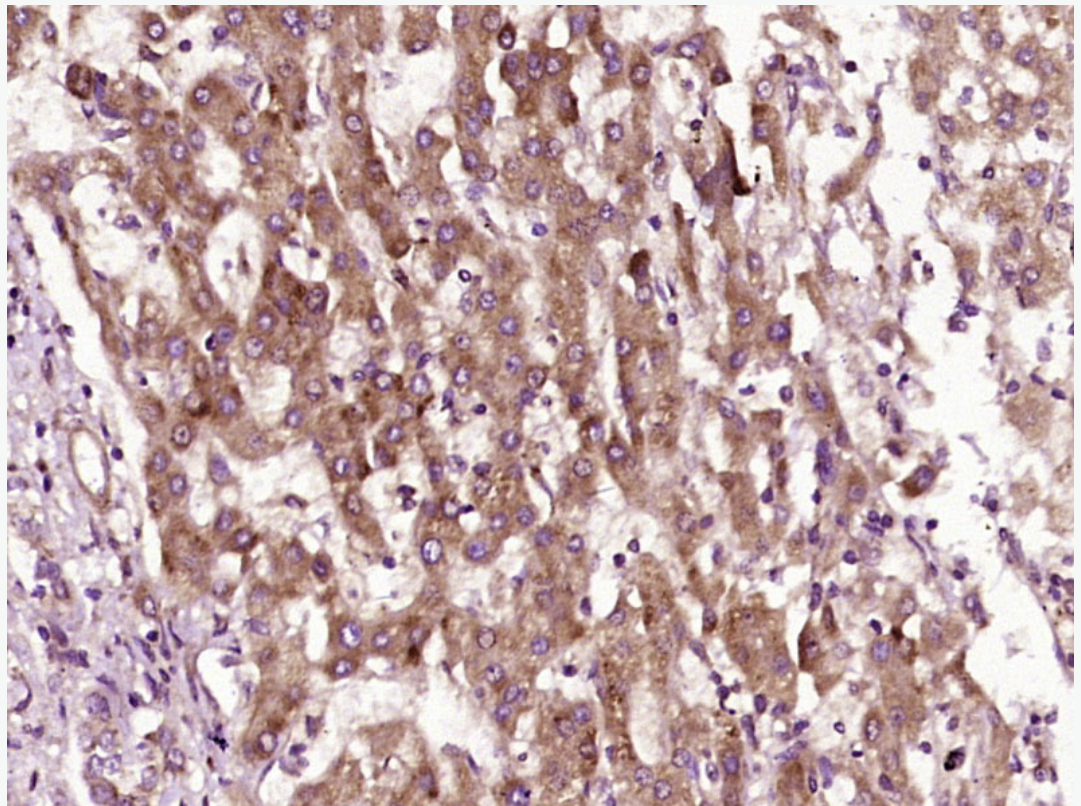
Hccm3(Human) Cell Lysate at 30 ug

Primary: Anti-GST1 (SL0663R) at 1/1000 dilution

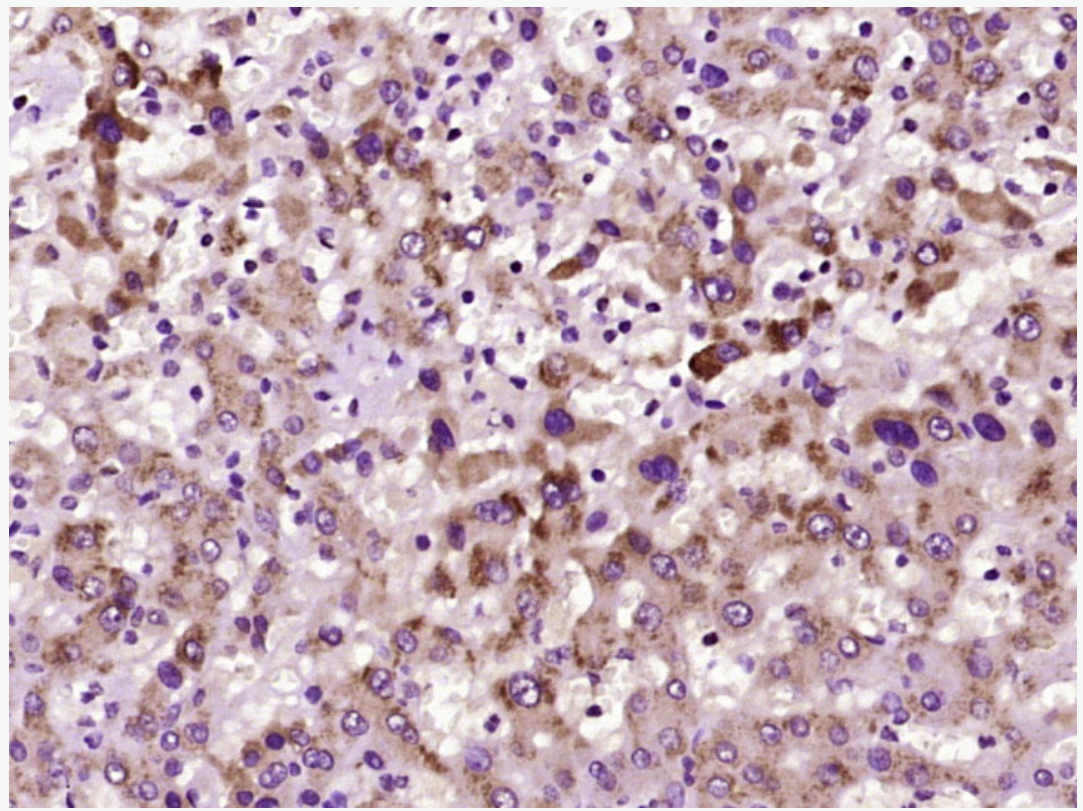
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 26 kD

Observed band size: 26 kD



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GST1) Polyclonal Antibody, Unconjugated (SL0663R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GST1) Polyclonal Antibody, Unconjugated (SL0663R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.