



Rabbit Anti-GSTA1 antibody

SL13398R

Product Name:	GSTA1
Chinese Name:	谷胱甘肽S转移酶α1抗体
Alias:	Glutathione S alkyltransferase A1; Glutathione S aralkyltransferase A1; Glutathione S aryltransferase A1; Glutathione S transferase 2; Glutathione S transferase A1; Glutathione S transferase alpha 1; Glutathione S transferase Ha subunit 1; Glutathione S-transferase A1; GST 2; GST class alpha; GST class alpha 1; GST class alpha member 1; GST class-alpha member 1; GST epsilon; GST HA subunit 1; GST, class alpha, 1; GST-epsilon; GST2; GSTA 1; GSTA1 1; GSTA1; GSTA1 protein; GSTA1-1; GSTA1_HUMAN; GTH 1; GTH1; HA subunit 1; MGC131939; OTTHUMP00000016611; S (hydroxyalkyl)glutathione lyase A1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	25kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GSTA1/Glutathione S Transferase alpha:51-150/222
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:[PubMed](#)

Members of the glutathione S-transferase (GST) family of proteins function in the detoxification of xenobiotics to protect cells against toxicant-induced damage. GSTs are differentially expressed in lung, liver and kidney tissue. Three isoforms, GSTA1-1, GSTA1-4 and GSTM1, localize to the mitochondria in addition to the cytoplasm. In normal and transformed cells, the oncoprotein Myb transcriptionally upregulates GSTM1. This isoform shows high specific activity for aflatoxin B1 epoxide conjugation, suggesting an important role for this interaction in the defense against both chemical and oxidative stress. The C-terminal domain of GSTA1 may form a component of the hydrophobic substrate-binding site, but in contrast appears not to be directly involved in GSH binding and is not absolutely essential for catalytic activity.

Function:

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

Subunit:

Homodimer or heterodimer of GSTA1 and GSTA2.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Liver.

Similarity:

Belongs to the GST superfamily. Alpha family.

Contains 1 GST C-terminal domain.

Contains 1 GST N-terminal domain.

SWISS:

P08263

Gene ID:

2938

Database links:

[Entrez Gene: 2938](#)Human

[Entrez Gene: 14857](#)Mouse

[Entrez Gene: 24421](#)Rat

[Omim: 138359](#)Human

[SwissProt: P08263](#)Human

Product Detail:

[SwissProt: P13745](#)Mouse

[SwissProt: P00502](#)Rat

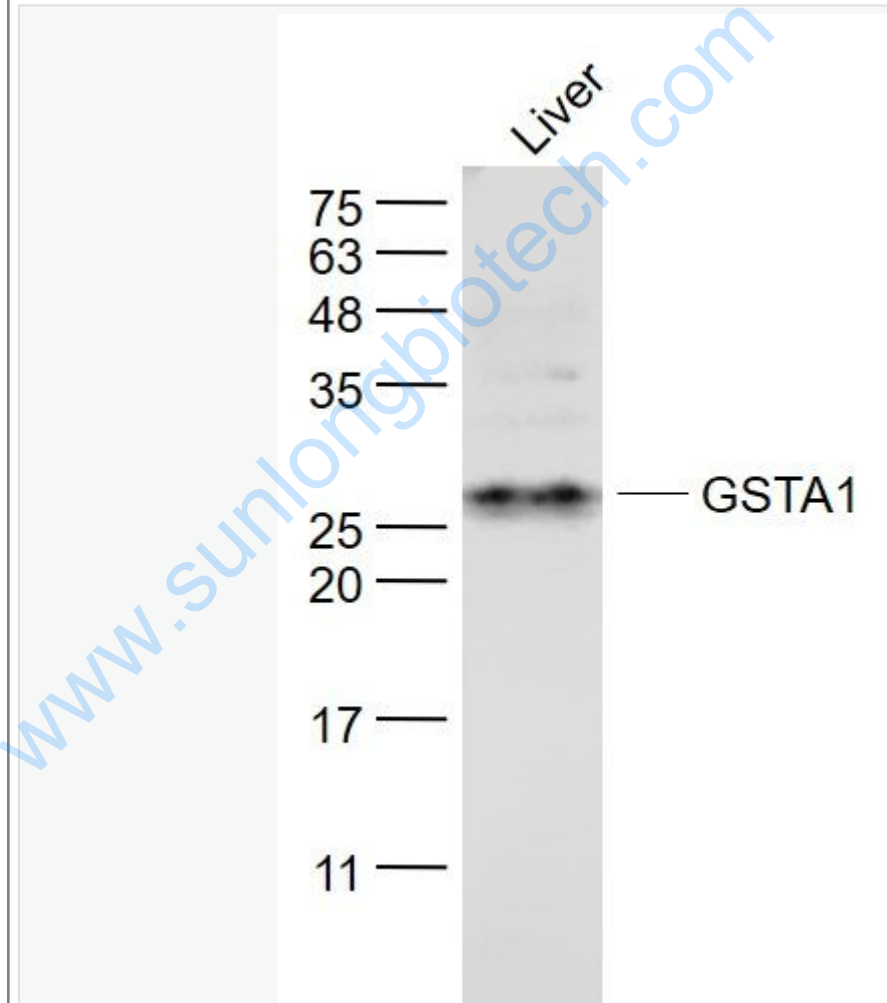
[Unigene: 446309](#)Human

[Unigene: 467426](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

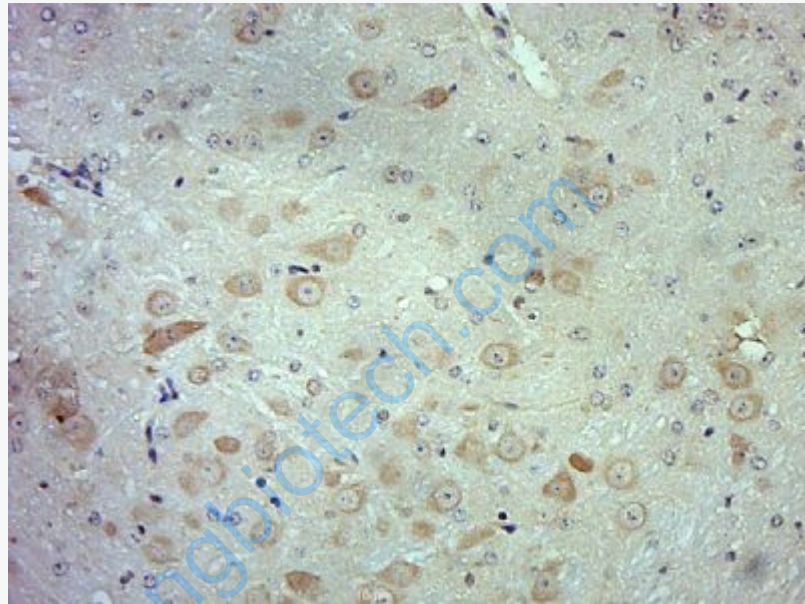
Liver (Rat) Lysate at 40 ug

Primary: Anti- GSTA1 (SL13398R) at 1/1000 dilution

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

Predicted band size: 25 kD

Observed band size: 27 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (GSTA1) Polyclonal Antibody, Unconjugated (SL13398R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.