

# MGST1 Polyclonal antibody

Catalog Number: 15906-1-AP

## Basic Information

<b>Catalog Number:</b> 15906-1-AP	<b>GenBank Accession Number:</b> BC005923	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 250 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4257	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10620	
<b>Isotype:</b> IgG	<b>Full Name:</b> microsomal glutathione S-transferase 1	
<b>Immunogen Catalog Number:</b> AG8498	<b>Calculated MW:</b> 155 aa, 18 kDa	
	<b>Observed MW:</b> 51 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB:</b> mouse liver tissue, mouse lung tissue rat liver tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC:</b> human liver tissue, mouse liver tissue
	<b>IF/ICC:</b> MCF-7 cells,

## Background Information

Microsomal glutathione S-transferase 1 (MGST1) is a membrane-bound transferase involved in exogenous detoxification and protection of cells from oxidative stress. MGST1 is mainly localized in the mitochondria, the plasma membrane of the endoplasmic reticulum (ER). The active form of MGST1 is a noncovalently associated homotrimer that binds one substrate glutathione molecule/trimer (PMID: 14726533; PMID: 11101503). The theoretical molecular weight of MGST1 is 17 kDa, and its homomeric molecular weight is 51-53 kDa.

## Storage

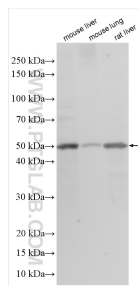
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

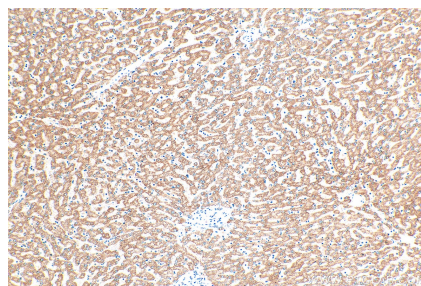
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

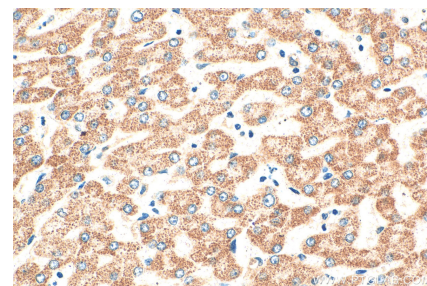
## Selected Validation Data



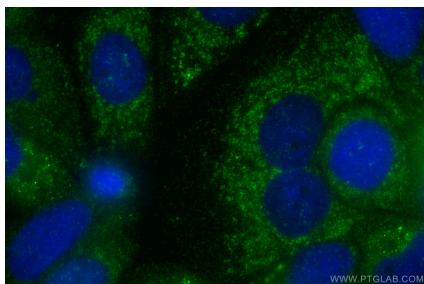
Various lysates were subjected to SDS PAGE followed by western blot with 15906-1-AP (GST1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15906-1-AP (GST1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15906-1-AP (GST1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using GST1 antibody (15906-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).