

# Mouse anti GST-Tag mAb

Catalog No.: AE001

104 Publications

## Basic Information

**Observed MW**

27kDa

**Calculated MW**

26kDa

**Category**

Tag antibody

**Applications**

WB,IP,ELISA

**Cross-Reactivity**

Species independent

**CloneNo number**

AMC0501

## Background

Glutathione S-transferases (GSTs), previously known as ligandins, comprise a family of eukaryotic and prokaryotic phase II metabolic isozymes best known for their ability to catalyze the conjugation of the reduced form of glutathione (GSH) to xenobiotic substrates for the purpose of detoxification. The GST family consists of three superfamilies: the cytosolic, mitochondrial, and microsomal—also known as MAPEG—proteins. Members of the GST superfamily are extremely diverse in amino acid sequence, and a large fraction of the sequences deposited in public databases are of unknown function. The Enzyme Function Initiative (EFI) is using GSTs as a model superfamily to identify new GST functions. A GST-tag is often used to separate and purify proteins that contain the GST-fusion protein. The tag is 220 amino acids (roughly 26 kDa) in size, which, compared to tags such as the Myc-tag or the FLAG-tag, is quite large. It can be fused to either the N-terminus or C-terminus of a protein. However, many commercially available sources of GST-tagged plasmids include a thrombin domain for cleavage of the GST tag during protein purification.

## Recommended Dilutions

**WB** 1:2000 - 1:5000**IP** 3µg antibody for 1µg  
extracts of recombinant  
protein**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

**Gene ID****Swiss Prot**

P08515

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

GST; GST tag; GST-tag

## Contact

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## Product Information

**Source**

Mouse

**Isotype**

IgG1

**Purification**

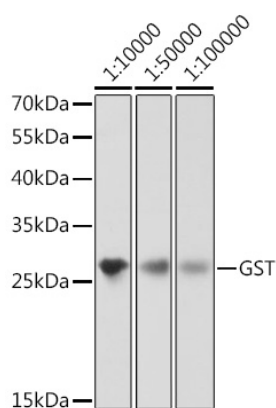
Affinity purification

**Storage**

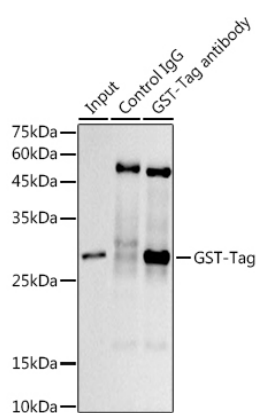
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 1.5% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of over-expressed GST protein using Mouse anti GST-Tag mAb (AE001) at different dilution. Each lane was loaded with 2 ug cell lysate.  
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.



Immunoprecipitation analysis of 1 µg extracts of GST-Tag cells using 3 µg Mouse anti GST-Tag mAb antibody (AE001). Western blot was performed from the immunoprecipitate using Mouse anti GST-Tag mAb antibody (AE001) at a dilution of 1:1000.