

Mouse anti GST-Tag mAb

Catalog No.: AE001 **112 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 - 1:10000

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

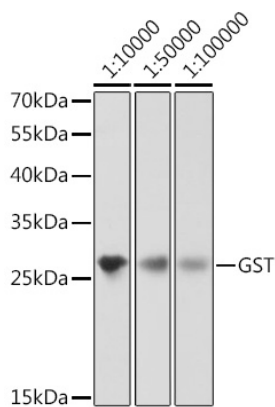
Affinity purification

Storage

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

Buffer: PBS containing 50% glycerol and 1.5% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



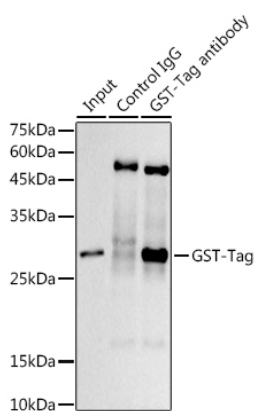
Western blot analysis of over-expressed GST protein using Mouse anti GST-Tag mAb (AE001) at different dilution. Each lane was loaded with 2 μ g cell lysate.

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 μ g extracts of GST-Tag cells using 3 μ g 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.