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Mouse anti GST-Tag mAb

Catalog No.: AE001 **114 Publications**

Basic Information

Observed MW
27 kDa

Calculated MW
26 kDa

Category
Tag antibody

Applications
WB,IP,IF/ICC,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	3 μg antibody for 1μg extracts of recombinant protein
IF/ICC	1:200 - 1:1000
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

Product Information

Source
Mouse

Isotype
IgG1

Purification
Affinity purification

Storage
Store at -20℃. 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.

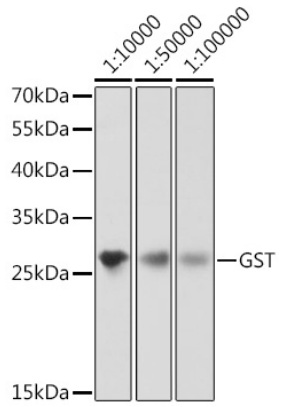
Contact

400-999-6126

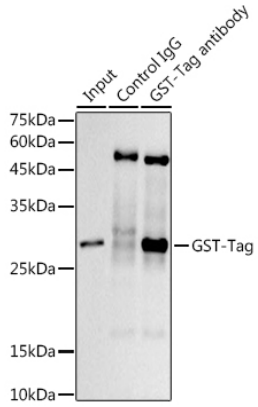
cn.market@abclonal.com.cn

www.abclonal.com.cn

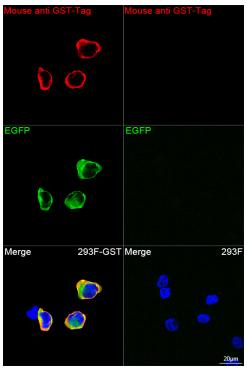
Validation Data



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.



Confocal imaging of 293F cells transfected with GST using Mouse anti GST-Tag mAb (AE001, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.