AE006

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Rabbit anti GST-Tag pAb

Catalog No.: AE006 **28 Publications**

Basic Information

Observed MW
27kDa

Calculated MW
26kDa

Category
Polyclonal Antibody

Applications
WB,IP

Cross-Reactivity
Species independent

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	1:1000 - 1:2000
IP	3μg antibody for 50μg extracts of recombinant protein

Immunogen Information

Gene ID **Swiss Prot**

Immunogen
Recombinant protein containing a sequence corresponding to amino acids 1-218 of GST protein.

Synonyms
GST;GST tag;GST-tag

Contact

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Product Information

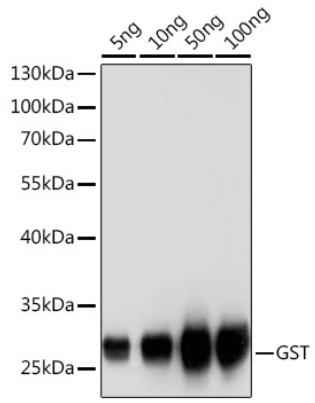
Source
Rabbit

Isotype
IgG

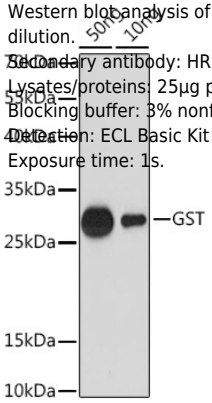
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

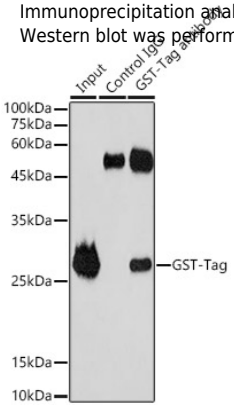
Validation Data



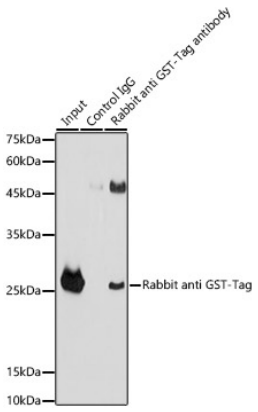
Western blot analysis of over-expressed GST protein using Rabbit anti GST-Tag pAb (AE006) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Immunoprecipitation analysis of 50 µg extracts of GST Protein using 3 µg GST-Tag antibody (AE006).
Western blot was performed from the immunoprecipitate using GST-Tag antibody (AE006).



Validation Data



Immunoprecipitation analysis of 300 µg extracts of GST-protein cells using 3 µg Rabbit anti GST-Tag antibody (AE006). Western blot was performed from the immunoprecipitate using Rabbit anti GST-Tag antibody (AE006) at a dilution of 1:10000.