10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GST Tag Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM1011a

Product Information

Application	WB, E
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	9AT106
Calculated MW	26000 Da

Additional Information

Other Names	Glutathione S-transferase
Target/Specificity	Purified recombinant GST fusion protein was used to produced this monoclonal antibody.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GST Tag Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Background

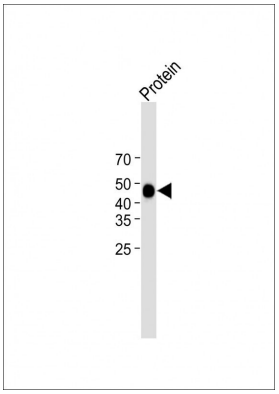
Glutathione S-transferase (GST) was originally cloned from parasite Schistosoma japonicum and it is now a widely used protein fusion partner. Vectors containing GST Tag have been developed for both prokaryotic and eukaryotic systems. The GST fusion proteins are easily purified from cell lysates by affinity chromatography using Glutathione Sepharose 4B to elute out the GST fusion protein from the column with a denaturing form of glutathione. Using the Abgent anti-GST antibody provides a simple solution to detect the expression of GST fusion proteins in cells.

References

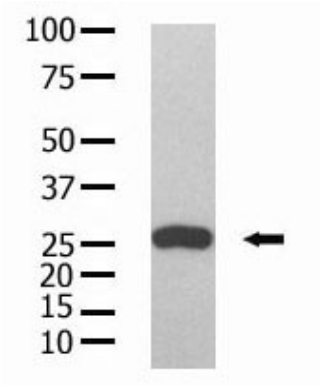
Smith, D.B. and Johnson, K.S., (1988). Gene 67, 31.
Parker, M.W. et al., (1990) J. Mol. Biol. 213, 221.
Toye, B. et al., (1990) Infect. Immun. 58, 3909.

Guan, K.L. and Dixon, J.E. (1991) Anal. Biochem. 192, 262

Images



All lanes: Anti-GST Antibody at 1:2000 dilution + 12 Tag Recombinant Protein lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 48KDa Blocking/Dilution buffer: 5% NFDM/TBST.



The anti-GST Mab (Cat. #AM1011a) is used in Western blot to detect GST recombinant protein purified from bacterial lysate.

Citations

- Functional characterization of an unobtrusive protein, CkMT4, in re-establishing desiccation tolerance in germinating seeds
- Receptor for advanced glycation end products (RAGE)-mediated cytotoxicity of 3-hydroxypyridinium derivatives.
- TET1 modulates H4K16 acetylation by controlling auto-acetylation of hMOF to affect gene regulation and DNA repair function.
- Expression of human Cfdp1 gene in Drosophila reveals new insights into the function of the evolutionarily conserved BCNT protein family.
- Recruitment of the 4EHP-GYF2 cap-binding complex to tetraproline motifs of tristetraprolin promotes repression and degradation of mRNAs with AU-rich elements.
- Eukaryotic translation elongation factor 1A induces anoikis by triggering cell detachment.
- Intraflagellar transport (IFT) protein IFT25 is a phosphoprotein component of IFT complex B and physically interacts with IFT27 in Chlamydomonas.
- TorsinA binds the KASH domain of nesprins and participates in linkage between nuclear envelope and cytoskeleton.