

Anti-Glutathione-S-transferase (GST) monoclonal antibody

Version: 1.1

Catalog No.: SWSMA001

Background: Glutathione-S-Transferase (GST) is an enzyme, which catalyzes the reaction of glutathione with a wide range of electrophilic substrates and therefore plays a role in the detoxification of potential alkylating agents. GST from *Schistosoma japonicum*, has been cloned in several expression vectors as a 27.5 kDa molecule, and used as a tag for expressing proteins of interest. These proteins are thus expressed as GST-fusion proteins. Antibodies to GST are useful in identifying the successful expression of these fusion proteins.

Description: a mouse monoclonal antibody raised against Glutathione-S-Transferase.

Source: Glutathione-S-Transferase.

Applications: WB 1:1000-2000, ELISA 1:500-2000. Optimal dilution has to be determined by the user.

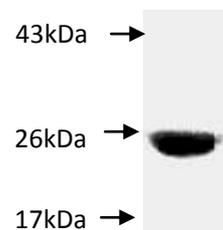
Applicable Species: GST from *Schistosoma japonicum* in GST fusion proteins.

Specifications: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4, 0.5% BSA with 0.05% sodium azide. Antibody was purified by affinity chromatography.

Storage conditions: store at 2-8°C for 3 months, -20°C for 1 year. To avoid freeze-thaw cycles, reconstituted antibody should be aliquoted before freezing for short-term storage (-20°C) or for long-term storage (-80°C).

Note: For research use only, not for use in diagnostic procedures.

Data:



Western blot analysis of GST-tagged fusion proteins.

References:

1. Smith, D.B. and Johnson, K.S. 1988. Single-step purification of polypeptides expressed in *Escherichia coli* as fusions with Glutathione S-transferase. *Gene* 67: 31-40.
2. Crabb, B.S. and Studdert, M.J. 1995. Expression of small regions of equine herpesvirus 1 glycoprotein C in *Escherichia coli*. *Vet. Microbiol.* 46: 181-191.
3. Soler, D., et al.1995. Matrilysin: expression, purification, and characterization. *J. Protein Chem.* 14: 511-520.
4. Driscoll, J., et al.1995. Functional comparison of native and recombinant human salivary Histatin 1. *J. Dent. Res.* 74: 1837-1844.
5. Xu, J., et al.1996. Assessment of antigenicity and genetic variation of glycoprotein B of murine cytomegalovirus. *J. Gen. Virol.* 77: 49-59.