

Product Information

Anti-Glutathione-S-transferase (GST) antibody, Mouse monoclonal clone 2H3-D10, purified from hybridoma cell culture

Product Number **SAB4200237**

Product Description

Anti-Glutathione-S-transferase (GST) antibody, Mouse monoclonal, (mouse IgG1 isotype) is derived from the hybridoma 2H3-D10 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a GST-fusion protein. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti- Glutathione-S-transferase (GST) recognizes GST from *Schistosoma japonicum* in GST-fusion proteins. The antibody may be used in various immunochemical applications including immunoblotting.

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.¹⁻²

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at -20 °C. For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 0.2-0.4 µg/mL is recommended. The detection limit for GST-fusion protein is ~10 ng/lane.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Smith, D.B., et al., *Proc. Natl. Acad. Sci. USA*, **83**, 8703-8707 (1986).
2. Smith, D.B., and Johnson, K.S., *Gene*, **67**, 31-40 (1988).

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