

## Product Information

### Monoclonal Anti-Glutathione-S-Transferase (GST), Clone GST-R 6G9

produced in rat, purified immunoglobulin

Catalog Number **SAB4200055**

#### Product Description

Monoclonal Anti-Glutathione S-Transferase (GST) (rat IgG2a isotype) is derived from the hybridoma GST-R 6G9 produced by the fusion of mouse myeloma cells (P3X63Ag8.653) and splenocytes from rat immunized with a GST fusion protein. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti- Glutathione S-Transferase (GST) is specific for GST from *Schistosoma japonicum*, and does not recognize GST from rabbit liver, porcine liver, bovine liver, rat liver or human placenta when tested by ELISA. The product may be used in several immunochemical techniques including immunoblotting (~ 27 kDa), ELISA and immunoprecipitation.

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 detoxication 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.<sup>1-2</sup>

#### Reagent

Supplied as a solution in 0.01M 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, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze at 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 0.05–0.1 µg/mL is recommended. The detection limit for GST recombinant protein is ~1.0 µg/lane under non-reducing and reducing conditions.

**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).

GG,TD,KAA,PHC 01/10-1