

THE™ GST Antibody, mAb, Mouse**Cat. No.:** A00865-40**Size:** 40 µg**Synonyms:** Mouse Anti-GST monoclonal antibody;**Description:**

Schistosoma japonicum glutathione S-transferase (GST) is a 26,000 Da enzyme that conjugates reduced glutathione to hydrophobic electrophiles. GST is an ideal fusion partner for production of foreign proteins in commercially available expression systems because it can be expressed in high levels in *E. coli*. The fusion proteins can be purified to homogeneity in a single step as the GST portion of the protein binds tightly to immobilized glutathione. Elution can be accomplished using free glutathione. The GST portion of the fusion protein can be separated from the protein of interest by using site-specific proteases. Antibodies directed against GST can be helpful in detecting the fusion protein during purification and to detect cleavage of GST from the protein of interest.

Immunogen: Recombinant GST protein (26 kD)**Host:** Mouse**Conjugation:** Unconjugated**Fusion Partner:**

Spleen cells were fused with SP2/0-Ag14 mouse myeloma cells

Formulation:

1. 40 µg, 100 µg, 200 µg (GenScript, A00865), 0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
2. 500 µg (GenScript, A00865), 0.5 mg/ml, lyophilized with PBS, pH 7.4, without sodium azide or carrier protein.

Clone: 2F10B9**Ig Subclass:** IgG1, k**Example****Specificity:** THE™ Anti-GST Monoclonal Antibody (Mouse) recognizes C-terminal, N-terminal, and internal tagged GST fusion proteins.**Purification:** Protein A affinity column**Applications:**

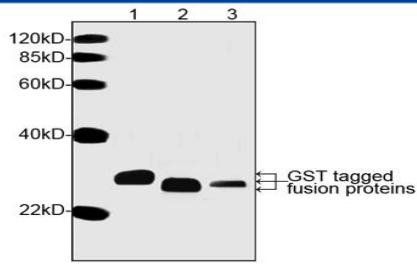
Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05-0.2 µg/ml**Western blot:** 0.1-1 µg/ml**Western blot using ONE-HOUR Western™ Kit:** For quick results, GenScript ONE-HOUR Western™ Kit L00205C is recommended. 1.2 µg of this antibody is mixed with diluted WB solution (dilute 2 ml WB with 2 ml of PBST).**Immunoprecipitation (IP):** 1 µg/ml**Other applications:** user-optimized**Reconstitution:**

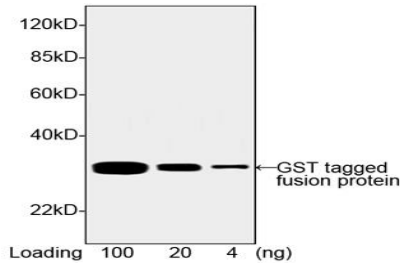
Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

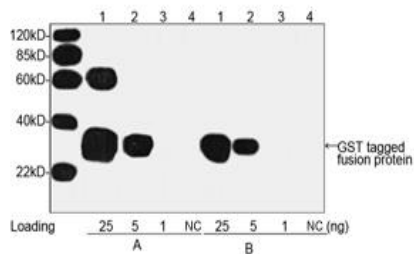
The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.



Western blot analysis of GST-tagged fusion proteins using THE™ GST Antibody, mAb, Mouse (GenScript, A00865, 1 µg/ml)
 Lane 1: N-terminal GST tagged fusion protein
 Lane 2: Internal GST tagged fusion protein
 Lane 3: C-terminal GST tagged fusion protein
 The signal was developed with Goat Anti-Mouse IgG (H&L) [HRP] Polyclonal Antibody (GenScript, A00160, 1:20,000) and LumiSensor™ HRP Substrate Kit (GenScript, L00221).



Western blot analysis of GST-tagged fusion protein using THE™ GST Antibody, mAb, Mouse (GenScript, A00865, 1 µg/ml)
 The signal was developed with One-Step Western™ Basic Kit (GenScript, L00205)
 Predicted Size: 26 kD
 Observed Size: 26 kD



Western blot analysis of GST-tagged fusion protein using THE™ GST Antibody, mAb, Mouse (GenScript, A00865 A: 1 µg/ml, B: 0.1 µg/ml)
 Lane 1-3: GST tagged fusion protein
 Lane 4: *E. coli* cell lysate
 The signal was developed with One-Step Western™ Basic Kit (GenScript, L00205).
 Predicted Size: 26 kD
 Observed Size: 26 kD