

Rev05
Update: Nov,14,2022

DATASHEET

THE™ GST Antibody, mAb, Mouse

Cat. No.: A00865

Overview

Specificity	THE™ Anti-GST Monoclonal Antibody (Mouse) recognizes GST localized at the C-terminal, N-terminal, and internal region of GST-tagged fusion proteins.
Host Species	Mouse
Immunogen	Recombinant GST protein (26 kDa)
Conjugate	Unconjugated

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.

Application	Recommended Usage
ELISA	0.05-0.2 µg/ml
Western Blot	0.1-1.0 µg/ml
Immunoprecipitation (IP)	1 µg/ml

Properties

Form	Lyophilized
Storage Buffer	1: 40 µg, 100 µg, 200 µg (GenScript, A00865), lyophilized with PBS, pH 7.4, containing 0.02% sodium azide. 2: 500 µg (GenScript, A00865), lyophilized with PBS, pH 7.4, without sodium azide or carrier protein.
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to a final concentration of 0.5 mg/mL.

Storage Instructions	The lyophilized product remains stable for up to 1 year at -20°C from the date of receipt. 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.
Purification	Protein A affinity column
Isotype	Mouse IgG1, κ
Clonality	Monoclonal
Clone ID	2F10B9
Note	GenScript can offer this product per customer's request including product size, buffer components, etc.

Examples

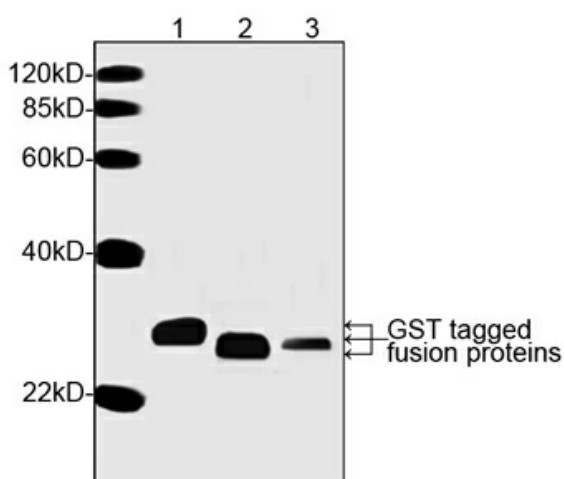


Figure 1. The affinity of THE™ GST Antibody, mAb, Mouse (GenScript, A00865) for C-terminal, N-terminal, and internal GST-tagged fusion proteins was analyzed by Western blotting.

Lane 1: N-terminal GST-tagged fusion protein
 Lane 2: Internal GST-tagged fusion protein
 Lane 3: C-terminal GST-tagged fusion protein

The primary antibody was THE™ GST Antibody, mAb, Mouse (GenScript, A00865) used at 1 μ g/mL concentration. The secondary antibody was Goat Anti-Mouse IgG (H&L) [HRP] Polyclonal Antibody (GenScript, A00160, 1:20,000).

Background

Target Background : *Schistosoma japonicum* glutathione S-transferase (GST) is a 26 kDa 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.

Synonyms : Mouse Anti-GST monoclonal antibody

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.