



Datasheet for ABIN962821  
**anti-GST antibody**



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3 Images

Overview

|              |  |
|--------------|--|
| Quantity:    | 100 µg   |
| Target:      | GST  |
| Reactivity:  | Schistosoma japonicum                                  |
| Host:        | Mouse  |
| Clonality:   | Monoclonal   |
| Conjugate:   | This GST antibody is un-conjugated                     |
| Application: | Western Blotting (WB), ELISA, Immunoprecipitation (IP) |

Product Details

|               |   |
|---------------|---|
| Brand:        | THE™  |
| Immunogen:    | Recombinant GST protein (26 kD)   |
| Clone:        | 2F10B9  |
| Isotype:      | IgG1  |
| Specificity:  | THE™ Anti-GST Monoclonal Antibody (Mouse) recognizes C-terminal, N-terminal, and internal tagged GST fusion proteins. |
| Purification: | Protein A affinity column   |

Target Details

|                   |  |
|-------------------|--|
| Target:           | GST  |
| Alternative Name: | Glutathione-S-Transferase (GST) ( <a href="#">GST Products</a> ) |

## Target Details

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**Background:** 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.

## Application Details

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**Application Notes:** 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, ONE-HOUR Western™ Kit 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

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

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

**Buffer:** PBS, pH 7.4, containing 0.02 % Sodium azide

**Preservative:** Sodium azide

**Precaution of Use:** WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled.

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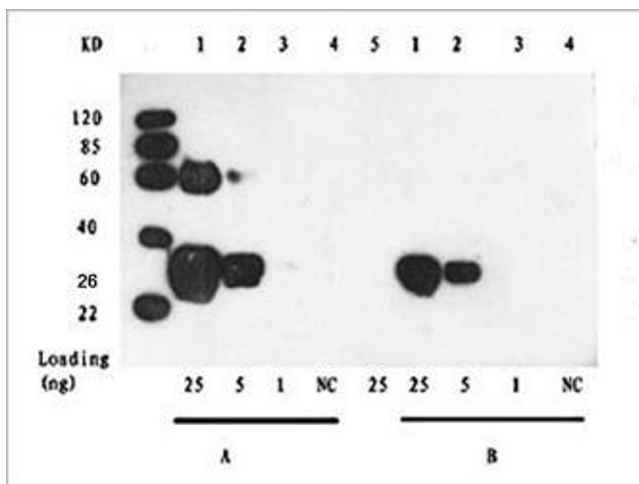
## Handling

Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

Storage: 4 °C/-20 °C

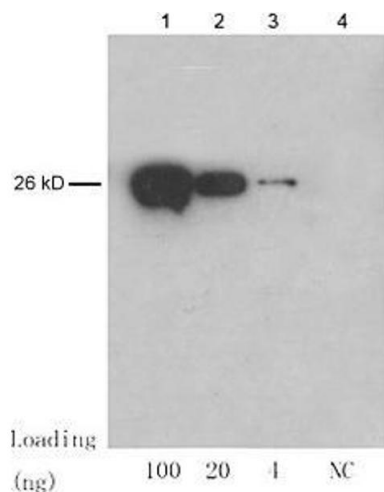
Storage Comment: The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

## Images



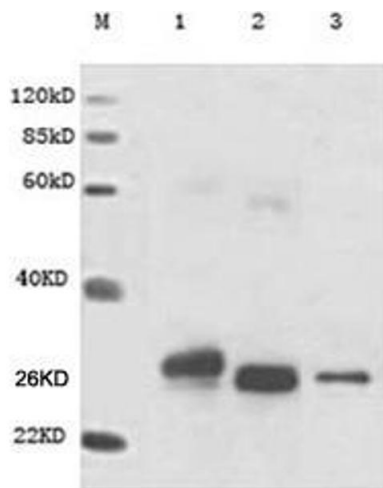
### Western Blotting

**Image 1.** Lane 1-3: 25 ng, 5 ng, 1 ng GST fusion protein. Primary antibody: Anti-GST Monoclonal Antibody (Mouse) (ABIN396865) A: 1 µg/mL. B: 0.1 µg/mL. Secondary antibody: Goat Anti-Mouse IgG (H&L) [HRP] Polyclonal Antibody (ABIN398387, 1: 10,000)



### Western Blotting

**Image 2.** Lane 1-3: 100 ng, 20 ng, 4 ng GST fusion protein Lane 4: NC: E. coli cell lysate Detection antibody: Anti-GST Monoclonal Antibody (Mouse) (ABIN396865) The Western blot was performed using One-Step Western Basic Kit (ABIN491503) with 1.2 µg of the antibody added to diluted WB solution (dilute 2 mL of WB with 2 mL of PBST)



### Western Blotting

**Image 3.** Lane M: Marker Lane 1: GST-Cart (N-terminal) Lane 2: His-GST-His (internal) Lane 3: cMyc-GST (C-terminal)  
 Primary antibody: 1 µg/mL Anti-GST Monoclonal Antibody (Mouse) (ABIN396865) Secondary antibody: Goat Anti-Mouse IgG (H&L) [HRP] Polyclonal Antibody (ABIN398387, 1: 20,000)