# California Bioscience

## Product Datasheet

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| **Product Name** | Anti-GST Tag (Mouse Monoclonal) |
| **Cata No** | CB100001M |
| **Immunogen** | Anti-GST antibody was produced by immunizing mice with a GST peptide |
| **Form** | Liquid |
| **Concentration** | 100ug/100ul |

## Specificity

The Anti-GST-tag Monoclonal Antibody (Mouse) detects over expressed glutathione-transferase (GST) fusion proteins.

## 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 the 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 homogenity 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.
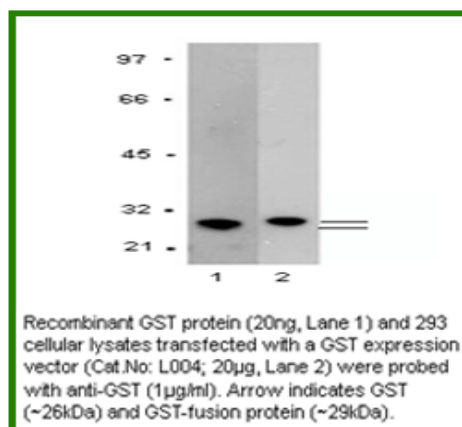
## Applications

WB, IS and IP. Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature, and length of incubations, etc.

The following concentration ranges are recommended starting points for this product.Western blot (1:1000), Immunoprecipitation and Immunostaining (1:200).

## Storage

Storage Buffer :PBS, pH 7.4 with 0.05% sodium azide.Stable for 1 year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. Aliquot will be stale at 4°C for 3 months.



Recombinant GST protein (20ng, Lane 1) and 293 cellular lysates transfected with a GST expression vector (Cat.No: L004; 20µg, Lane 2) were probed with anti-GST (1µg/ml). Arrow indicates GST (~26kDa) and GST-fusion protein (~29kDa).

**\* For Non-Clinical Research Use Only \***