

S. Japonicum Glutathione S-transferase/GST Antibody

Catalog Number: AGT0501

PRODUCT INFORMATION

Catalog number

AGT0501

Clone No.

1E5

Product type

Monoclonal Antibody

UnitProt No.

P08515

NCBI Accession No.

AAB59203.1

Alternative Names

Glutathione S-transferase class-mu 26 kDa isozyme, GST 26, Sj26 antigen, SjGST

PRODUCT SPECIFICATION

Antibody Host

Mouse

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant Schistosoma japonicum Glutathione S transferase (GST) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

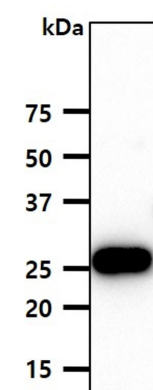
Glutathione S transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. GST proteins can be purified by immobilized glutathione affinity chromatography. Many recombinant proteins have been engineered with GST tags to facilitate the detection, isolation and purification of these proteins. Monoclonal antibody reacting specifically with GST may be useful in various immunotechnique, to identify the expression of a GST fusion protein in bacteria, bacterial lysates or cells and tissues transfected with a GST fusion protein expressing vectors.

General References

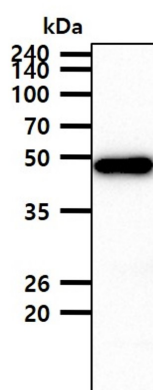
Smith, D., et al., Proc. Natl. Acad. Sci. USA, 83, 8703 (1986).
Cartwright, G., et al., J. Immunol. Meth., 179, 31 (1995).
Hibma, M., et al., Nucl. Ac. Res., 22, 3806 (1994).

DATA

Western blot analysis (WB)



The recombinant protein GST (50ng, 28kDa) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-GST antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

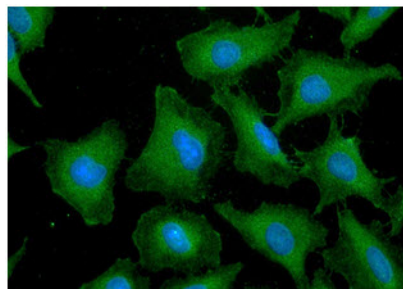


The recombinant human GST-fusion protein (50ng, 49kDa) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-GST antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of GST in HeLa cells. The cell was stained with AGT0501 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).