

Monoclonal anti-human GST antibody (clone 1E5)

Mouse IgG_{2b}, κ

Cat. No. IBAGT0501

Immunogen: Recombinant Glutathione S transferase (GST) purified from *E. coli*

NCBI Accession No.:

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-GST mAb, clone 1E5, is derived from hybridization of mouse SP2/0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant GST protein.

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

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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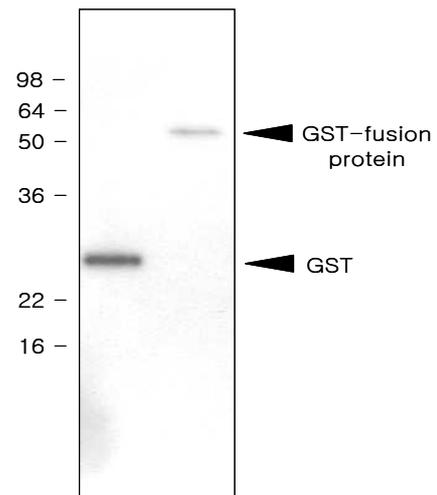
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Product information

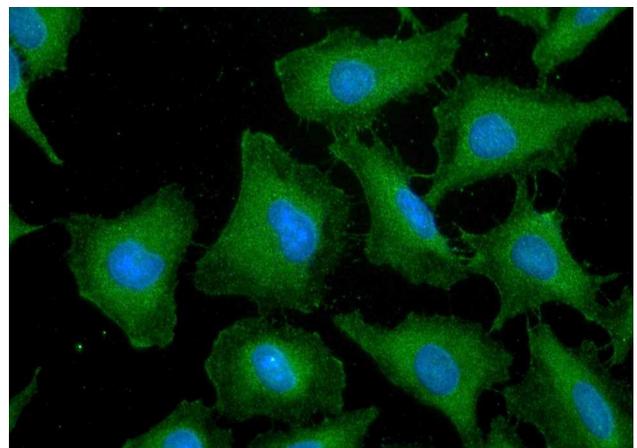
Western blot analysis

Recombinant GST (28kDa) and GST-fusion protein (61kDa) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-GST antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Arrows indicate GST and GST-fusion proteins (20ng).



ICC/IF analysis

ICC/IF analysis of GST in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GST antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



Smith, D., *et al.*, *Proc. Natl. Acad. Sci. USA*, 83, 8703 (1986).

General references: Cartwright, G., *et al.*, *J. Immunol. Meth.*, 179, 31 (1995).

Hibma, M., *et al.*, *Nucl. Ac. Res.*, 22, 3806 (1994).

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