Datasheet for ABIN99862

anti-GST antibody

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Overview

Quantity:	1 mg
Target:	GST
Reactivity:	Schistosoma japonicum
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This GST antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Dot Blot (DB)

Product Details

Immunogen:	Glutathione-S-Transferase [Schistosoma japonicum] Immunogen Type: NativeProtein
Isotype:	IgG
Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using GST coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Glutathione-S-Transferase [Schistosoma japonicum]. Cross reactivity against Glutathione-S-Transferase from other sources may occur but has not been specifically determined.
Characteristics:	GST (Glutathione-S-Transferase) is a protein expression tag commonly used in molecular biology. Anti GST will react with synthetic construct present in most known GST containing cloning or expression vectors. GST is responsible for the conjugation of reduced glutathione to

Product Details

	a wide number of exogenous and endogenous hydrophobic electrophiles. The amino acid sequence GST is highly conserved in most organisms including mammals. GST exists as a 26 kDa homodimer.
Sterility:	Sterile filtered

Target Details

Target:	GST
Alternative Name:	GST (GST Products)
Background:	GST (Glutathione-S-Transferase) is a protein expression tag commonly used in molecular biology. Anti GST will react with synthetic construct present in most known GST containing cloning or expression vectors. GST is responsible for the conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. The amino acid sequence GST is highly conserved in most organisms including mammals. GST exists as a 26 kDa homodimer. Synonyms: GST, Glutathione-S-Transferase
UniProt:	P08515

Application Details

Application Notes:	Suitable for immunoblotting (western or dot blot), ELISA, immunoprecipitation and most immunological methods requiring high titer and specificity. This antibody has also been reported to be suitable for immobilization in Label-free Interaction Analysis (Biocore).
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C

Handling

Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot secondary antibody and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

Publications

Product cited in:

Wallis, Ventimiglia, Otigbah, Infante, Cuesta-Geijo, Kidiyoor, Carbajal, Fleck, Foiani, Garcia-Manyes, Martin-Serrano, Agromayor: "The ESCRT machinery counteracts Nesprin-2G-mediated mechanical forces during nuclear envelope repair." in: **Developmental cell**, Vol. 56, Issue 23, pp. 3192-3202.e8, (2021) (PubMed).

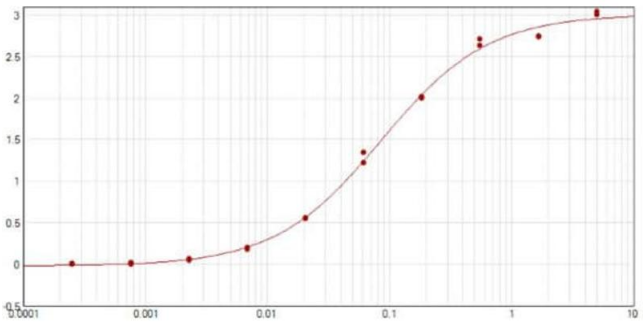
Merigliano, Burla, La Torre, Del Giudice, Teo, Liew, Chojnowski, Goh, Olmos, Maccaroni, Giubettini, Chiolo, Carlton, Raimondo, Vernì, Stewart, Rhodes, Wright, Burke, Saggio: "AKTIP interacts with ESCRT I and is needed for the recruitment of ESCRT III subunits to the midbody." in: **PLoS genetics**, Vol. 17, Issue 8, pp. e1009757, (2021) (PubMed).

Alvarez-Castelao, Tom Dieck, Fusco, Donlin-Asp, Perez, Schuman: "The switch-like expression of heme-regulated kinase 1 mediates neuronal proteostasis following proteasome inhibition." in: **eLife**, Vol. 9, (2020) (PubMed).

Nuwer, Fleck: "Anterograde trafficking signals in GABAA subunits are required for functional expression." in: **Channels (Austin, Tex.)**, Vol. 13, Issue 1, pp. 440-454, (2020) (PubMed).

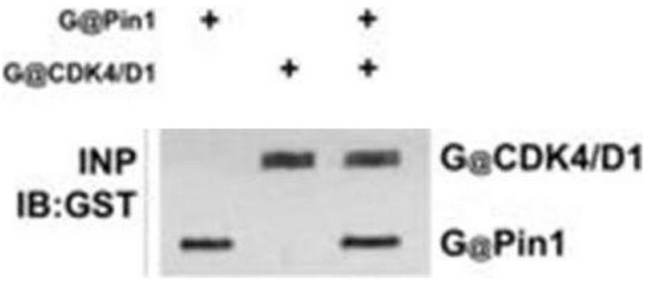
Rohde, Becker, Krähling: "Marburg virus regulates the IRE1/XBP1-dependent unfolded protein response to ensure efficient viral replication." in: **Emerging microbes & infections**, Vol. 8, Issue 1, pp. 1300-1313, (2020) (PubMed).

There are more publications referencing this product on: Product page



ELISA

Image 1. ELISA results of purified Goat Anti-GST Antibody tested against GST. Each well was coated in 1.0 µg of antigen. The starting dilution of antibody was 5 µg/mL and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody.



Western Blotting

Image 2. Immunoprecipitation of anti-GST antibody. Lane 1: T98G cells incubated with GST-Pin1. Lane 2: T98G cells incubated with GST-CDK4/cyclinD1. Lane 3: T98G cells incubated with GST-Pin1 and GST-CDK4/cyclinD1. Immunoprecipitated with pRb antibody. Load: 25 µg per lane. Primary antibody: anti-GST 1:400 for overnight at 4°C. Secondary antibody: secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.

