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Datasheet for 600-401-B86

GST Antibody

Overview

Description:	Anti-GST (RABBIT) Antibody - 600-401-B86
Item No.:	600-401-B86
Size:	1 mg
Applications:	ELISA, WB, IP
Reactivity:	GST-Tag
Host Species:	Rabbit

Product Details

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:	rabbit anti-GST antibody, Glutathione-S-Transferase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	GST-Tag
Immunogen Type:	Native Protein
Immunogen:	The immunogen is full length GST isolated from Schistosoma japonicum.

Purity/Specificity:	Anti-GST Antibody 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-Rabbit 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.

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IP (Based on references)
Application Note:	Anti-GST Antibody has been tested by ELISA and western blot and is suitable for immunohistochemistry as well as other antibody based assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000-1:5,000
IP:	User Optimized
WB:	1:2,000-1:10,000

Formulation

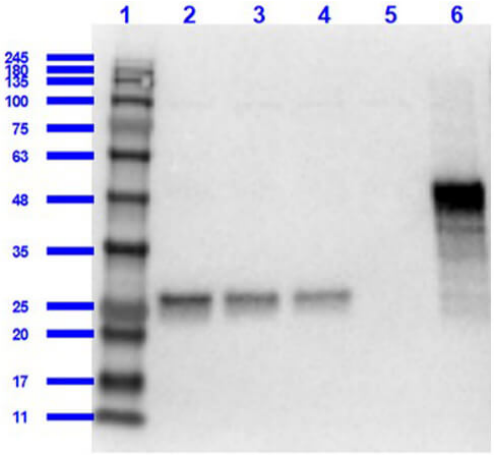
Physical State:	Liquid (sterile filtered)
Concentration:	1.1 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

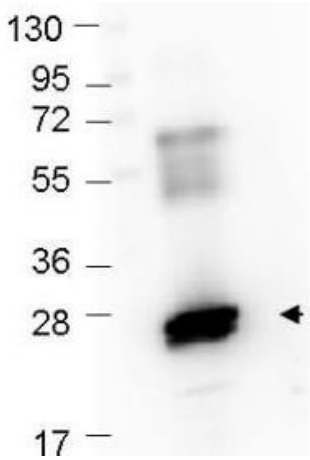
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Rabbit Anti-GST Antibody. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: rec. GST/HeLa Whole Cell Lysate (0.1µg/10µg). Lane 3: rec. GST/HeLa Whole Cell Lysate (0.05µg/10µg). Lane 4: rec. GST/HeLa Whole Cell Lysate (0.03µg/10µg). Lane 5: HeLa Whole Cell Lysate [p/n W09-000-364] (10µg). Lane 6: 12 Epitope GST Lysate [p/n MB-302-0100] (5µg). Primary Antibody: Anti-GST at 1.0µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 for 30mins at RT. Blocking: 1% Casein/1XTBS/0.05%Tween. Predicted MW: GST - 26kDa, 12 Epitope GST Tag Protein Marker Lysate - 48kDa.



Western Blot
Western Blot showing detection of recombinant GST protein (0.25 µg) in lane 2. MW markers are in lane 1. Protein was run on a 4-20% gel, then transferred to 0.45 µm nitrocellulose. After blocking with 1% BSA-TTBS (p/n MB-013, diluted to 1X) overnight at 4°C, primary antibody was used at 1:1000 at room temperature for 30 min. HRP-conjugated Goat-Anti-Rabbit (p/n 611-103-122) secondary antibody was used at 1:40,000 in MB-070 blocking buffer and imaged on the VersaDoc™ MP 4000 imaging system (Bio-Rad).

References

- Yoshida, Y et al. Elevation of autoantibody level against PDCD11 in patients with transient ischemic attack. *Oncotarget* (2018)
- Smith, TS et al. Light-dependent phosphorylation of Bardet-Biedl syndrome 5 in photoreceptor cells modulates its interaction with arrestin1. *Cellular and Molecular Life Sciences : Cmls* (2013)

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