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Datasheet for 200-301-200

GST Antibody

Overview

Description:	Anti-GST (MOUSE) Monoclonal Antibody - 200-301-200
Item No.:	200-301-200
Size:	500 µg
Applications:	ELISA, WB, IP
Reactivity:	GST-Tag
Host Species:	Mouse

Product Details

Background:	Rockland produces a wide range of GST antibodies in our laboratories. Select GST antibodies from several monoclonal and/or polyclonal GST antibodies listed below. Select appropriate GST antibodies for your research by isotype, epitope, applications and species reactivity. 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:	mouse anti-GST antibody, Glutathione-S-Transferase, Anti-GST monoclonal antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	3D4
Format:	IgG1

Target Details

Reactivity:	GST-Tag
Immunogen Type:	Native Protein
Immunogen:	A BALB/c mouse was immunized with Glutathione-S-Transferase [Schistosoma japonicum].

Purity/Specificity:	Anti-GST monoclonal antibody was purified from concentrated tissue culture supernate by Protein A chromatography which reacts specifically with GST. 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 most immunological techniques requiring high titer binding and lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:150,000
IHC:	User Optimized
IP:	User Optimized
WB:	1:1,000 - 1:10,000

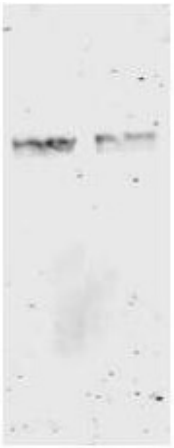
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.006 mg/mL by UV absorbance at 280 nm
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:	Dry Ice
Storage Condition:	Store anti-GST at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of anti-GST antibody. Lane 1: GST recombinant protein (p/n 000-001-200). Lane 2: HeLa cell lysates expressing recombinant GST protein (p/n W09-000-364/000-001-200). Load: 0.1 µg per lane. Primary antibody: GST antibody at 1.0µg/ml for 1 h at room temperature. Secondary antibody: IRDye800™ goat anti-mouse secondary antibody at 1:5,000 for 45 min at RT. Block: 5% BLOTTO (p/n B501-0500) overnight at 4°C. Other band(s): none.



Western Blot
Western Blot of Mouse-anti-GST antibody. Lane 1: molecular weight marker. Lane 2: Mouse-anti-GST monoclonal antibody (blue), Rabbit anti-Transferrin (green), and Goat-anti-Alpha-1-Anti-Trypsin (red) were used in a multiplex system to detect target proteins under reducing conditions in albumin depleted human serum with 320 ng of added GST. Load: 1 µg per lane. Primary antibody: Each primary antibody at 1:1000 for overnight at 4°C. Secondary antibody: Donkey anti-Rabbit IgG DyLight549 (p/n 611-742-127), Donkey anti-Mouse IgG DyLight 488 (p/n 610-741-002), and Donkey anti-Goat IgG DyLight 649 (p/n 605-743-002) secondary antibody at 1:10,000 for 30 min at RT. Block: MB-070 overnight at 4°C.

References

- Foss S et al. Human IgG Fc-engineering for enhanced plasma half-life, mucosal distribution and killing of cancer cells and bacteria. *Nat Commun.* (2024)
- Yoshida, Y et al. Elevation of autoantibody level against PDCD11 in patients with transient ischemic attack. *Oncotarget* (2018)
- Bolch, SN et al. A Splice Variant of Bardet-Biedl Syndrome 5 (BBS5) Protein that Is Selectively Expressed in Retina. *PloS One* (2016)
- 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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