

Datasheet for 100-101-200**GST Antibody****Overview**

Description:	Anti-GST (GOAT) Antibody - 100-101-200
Item No.:	100-101-200
Size:	2 mL
Applications:	WB, Biochemical Assay, IP
Reactivity:	GST-Tag
Host Species:	Goat

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:	goat anti-GST Antibody, GST, Glutathione-S-Transferase
Host Species:	Goat
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Reactivity:	GST-Tag
Immunogen Type:	Native Protein
Immunogen:	Glutathione-S-Transferase [Schistosoma japonicum]

Purity/Specificity:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified Glutathione-S-Transferase [<i>Schistosoma japonicum</i>]. Cross reactivity against Glutathione-S-Transferase from other sources may occur but has not been specifically determined.
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Application Details

Tested Applications:	WB
Suggested Applications:	Biochemical Assay, IP (Based on references)
Application Note:	Anti-GST has been tested by western blot and is suitable to be assayed against 1.0 ug of Glutathione-S-Transferase [<i>Schistosoma japonicum</i>] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,500 to 1:8,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	User Optimized
WB:	1:1,000 - 1:5,000

Formulation

Physical State:	Lyophilized
Concentration:	90 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

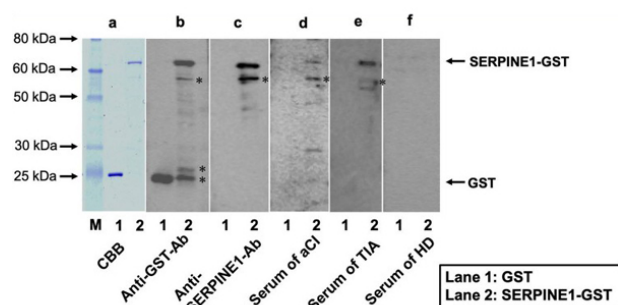
Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition: Store vial at 4° C prior to restoration. For extended storage aliquot contents 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: Expiration date is one (1) year from date of receipt.

Images



Western Blot

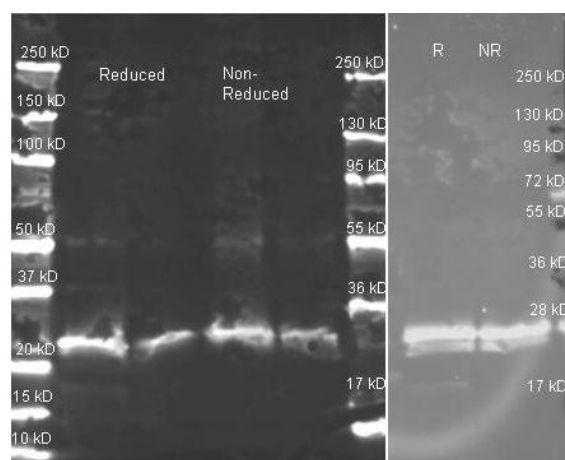
Western blot analysis.

Affinity-purified glutathione-S-transferase (GST; lane 1) and GST-tagged full length SERPINE1 proteins (lane 2) were electrophoresed with sodium dodecyl sulfate–polyacrylamide (11%) gels, followed by staining with Coomassie Brilliant Blue.

(a). Western blotting using anti-GST antibody (b) and anti-SERPINE1 antibody (c). Serum samples of patients with acute cerebral infarction (#7074) (d), a transient ischemic attack (#7096) (e), and of a healthy donor (#7021) (f).

Electrophoresed molecular weight markers are also shown in (a) (lane M), and the sizes are shown in the left. The asterisk represents degradation products of SERPINE1 after electrophoresis. The number after # is the anonymized patient number and indicates which patient's serum was used.

Fig 1. PMID: 34741085



Western Blot

Western Blot of Goat anti GST antibody. Lane 1: molecular weight. Lane 2: 1 ug GST reduced. Lane 3: 0.25 ug GST reduced. Lane 4: 1 ug GST non-reduced. Lane 5: 0.25 ug GST non-reduced. Lane 6: molecular weight. Primary antibody: Goat anti GST antibody at 1:5000 for overnight at 4°C. Secondary antibody: Dylight 649 conjugated Donkey anti Goat secondary antibody at 1:10,000 for 1.5 hours at RT. Lane 7: 1 ug GST reduced. Lane 8: 1 ug GST non-reduced. Lane 9: molecular weight. Primary antibody: Goat anti GST antibody at 1:1000 for overnight at 4°C. Secondary antibody: Dylight 549 conjugated Donkey anti Goat secondary antibody at 1:10,000 for 1.5 hours at RT. Block: MB-070 overnight at 4°C.

References

- Koivunen, J et al. Integrin $\alpha 11\beta 1$ is a receptor for collagen XIII. *Cell and Tissue Research* (2021)
- Kubota, M et al. Serum anti-SERPINE1 antibody as a potential biomarker of acute cerebral infarction. *Scientific Reports* (2021)
- 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)

Disclaimer

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