

Rabbit GCYB1 Polyclonal Antibody | anti-GCYB1 antibody

GCYB1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321145	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GCYB1; Polyclonal Antibody; GCYB1 Antibody; GC-S-beta-1; GC-SB3; GCBeta1; GCS beta 1; GCS beta 3; GCS-beta-1; GCS-beta-3; GCYB1_HUMAN; guanylate cyclase 1; soluble; beta 3; Guanylate cyclase soluble beta 1 chain; Guanylate cyclase soluble subunit beta-1; Guanylate cyclase soluble subunit beta-3; GUC1B3; GUCSB3; GUCY1B1; Gucy1b1; GUCY1B3; SGC; Soluble guanylate cyclase small subunit; anti-GCYB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GCYB1 antibody detects endogenous levels of GCYB1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	619
Applicable Applications for anti-GCYB1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GCYB1
Subcellular Location	Cytoplasm.
Tissue Specificity	Detected in brain cortex and cerebellum (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Dog
Similarity	Pig (100%), Bovine (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from rat brain, using GCYB1 Antibody.



IF (Immunofluorescence)
AAA321145 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)
AAA321145 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on HuvEc cell lysate using GCYB1 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GCYB1 antibody	Description: GUCY1B3 Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Heterodimer of an alpha and a beta chain. 2 isoforms of the human protein are produced by alternative splicing. Function: Mediates responses to nitric oxide (NO) by catalyzing the biosynthesis of the signaling molecule cGMP. Subunit Structure: The active enzyme is formed by a heterodimer of an alpha and a beta subunit. Heterodimer with GUCY1A1 (PubMed:1352257, PubMed:23505436, PubMed:24669844). Can also form inactive homodimers in vitro (PubMed:23505436, PubMed:24669844). Similarity: Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504215
NCBI GeneID	2983
NCBI Accession #	NP_000848.1
NCBI GenBank Nucleotide #	NM_000857.3
UniProt Accession #	Q02153; Q86WY5; B7Z426
Molecular Weight	Observed: 70 kDa Predicted: 71 kDa
NCBI Official Full Name	guanylate cyclase soluble subunit beta-1 isoform 2
NCBI Official Synonym Full Names	guanylate cyclase 1 soluble subunit beta 1
NCBI Official Symbol	GUCY1B1
NCBI Official Synonym Symbols	GUCB3; GC-SB3; GUC1B3; GUCSB3; GUCY1B3; GC-S-beta-1
NCBI Protein Information	guanylate cyclase soluble subunit beta-1
UniProt Protein Name	Guanylate cyclase soluble subunit beta-1
UniProt Gene Name	GUCY1B1
UniProt Synonym Gene Names	GCS-beta-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gcyb1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321145>