

Datasheet for ABIN265451
anti-GUCY1B3 antibody

2 Images

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Overview

Quantity:	0.1 mg
Target:	GUCY1B3
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GUCY1B3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Specificity:	This antibody detects endogenous levels of Guanylate Cyclase β 1/3 protein. (region surrounding Val21)
Cross-Reactivity (Details):	Species reactivity (expected): Mouse and Rat. Species reactivity (tested): Human.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Purity:	> 95 % pure by SDS-PAGE

Target Details

Target:	GUCY1B3
Alternative Name:	Guanylate Cyclase Soluble GUCY1B3 (GUCY1B3 Products)

Target Details

Background:	Guanylate cyclases belong to the adenylyl cyclase class-4/guanylyl cyclase family. There are two forms of guanylate cyclase, a soluble form (GCS or sGC), which act as receptors for nitric oxide and a membrane-bound receptor form (GC), which are peptide hormone receptors. The GC-C protein is composed of an extracellular domain, a single transmembrane domain, and a cytoplasmic region consisting of a kinase-like domain and a catalytic domain. It is expressed as two differentially glycosylated forms, a 130 kDa precursor form present in the endoplasmic reticulum and a 145 kDa form present on the plasma membrane. Ligand binding to the extracellular domain of GC-C promotes the accumulation of cGMP. GC-C acts as the receptor for heatstable enterotoxins, small peptides secreted by some pathogenic strains of E. coli that cause severe secretory diarrhea. GC-C also binds to guanylin and uroguanylin peptides, which modulate renal function in response to oral salt load.Synonyms: GCS-beta-1, GCS-beta-3, GUC1B3, GUCSB3, GUCY1B1, Guanylate cyclase soluble subunit beta-1, Guanylate cyclase soluble subunit beta-3, Soluble guanylate cyclase small subunit, sGC beta
Molecular Weight:	approx. 70 kDa
Gene ID:	2983
NCBI Accession:	NP_000848
UniProt:	Q02153
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	ELISA: 1: 5000approx. 1: 20000. WB: 1: 500approx. 1: 1000. IHC: 1: 50approx. 1: 200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.2., 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	DO NOT FREEZE!
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.

Images

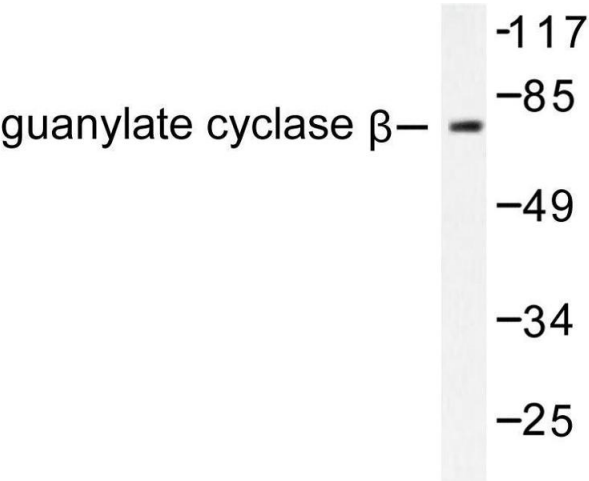


Image 1.

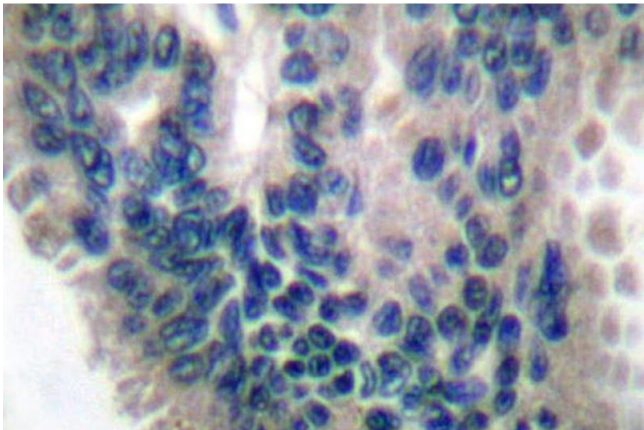


Image 2.