

Product datasheet for AP06153PU-N

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

GUCY1B1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on Paraffin Sections: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Synthetic peptide, corresponding to the N-terminus of Human GCS-β-1.

Specificity: This antibody detects endogenous levels of Guanylate Cyclase β1/3 protein.

(region surrounding Val21)

Formulation: PBS, pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)

Preservative: 15 mM sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~70 kDa

Gene Name: guanylate cyclase 1, soluble, beta 3

Database Link: Entrez Gene 2983 Human

Q02153





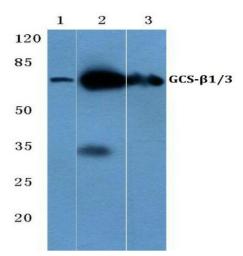
Background:

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.

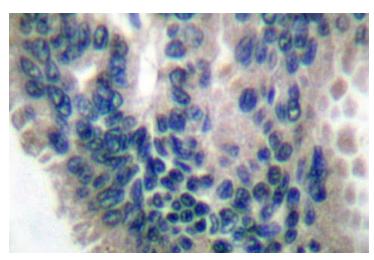
Synonyms:

GCS-beta-1, GCS-beta-3, GUC1B3, GUCSB3, GUCY1B1, sGC beta

Product images:



Western Blot analysis using Guanylate cyclase soluble GUCY1B3 Antibody at 1/500 dilution. Lane 1: HEK293T whole cell. Lane 2: Mouse kidney tissue lysate. Lane 3: Rat kidney tissue lysate.



Immunohistochemistry analysis of Guanylate cyclase soluble GUCY1B3 (Antibody) in paraffinembedded human lung carcinoma tissue.