

Product datasheet for AP06153PU-N

GUCY1B1 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

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
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminus of Human GCS- β -1.
Specificity:	This antibody detects endogenous levels of Guanylate Cyclase β 1/3 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:	<u>Entrez Gene 2983 Human</u> <u>Q02153</u>



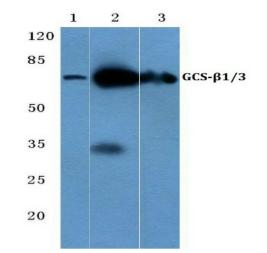
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

GUCY1B1 Rabbit Polyclonal Antibody – AP06153PU-N

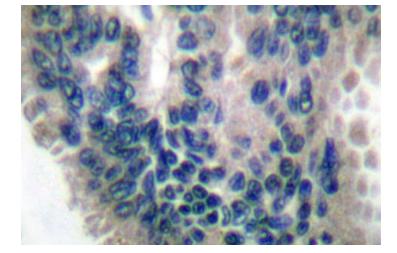
Background:Guanylate cyclases belong to the adenylyl cyclase class-4/guanylyl cyclase family. There are
two forms of guanylate cyclase, a soluble form (GCS or sGC), which act as receptors for nitric
oxide and a membrane-bound receptor form (GC), which are peptide hormone receptors.
The GC-C protein is 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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US