10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GCS-β-1 Polyclonal Antibody

Catalog # AP70069

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q02153
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70514

Additional Information

Gene ID	2983
Other Names	GUCY1B3; GUC1B3; GUCSB3; GUCY1B1; Guanylate cyclase soluble subunit beta-1; GCS-beta-1; Guanylate cyclase soluble subunit beta-3; GCS-beta-3; Soluble guanylate cyclase small subunit
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

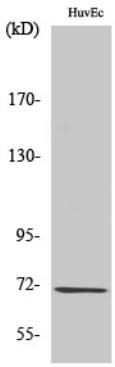
Protein Information

Name	GUCY1B1 (HGNC:4687)
Function	Beta subunit of soluble guanylate cyclase (sGC), a key enzyme in nitric oxide (NO) signaling. sGC functions as a heterodimer consisting of one alpha and one beta subunit. It serves as the primary intracellular receptor for NO, which binds to a heme prosthetic group located on the beta subunit. Upon NO binding, sGC catalyzes the conversion of GTP into cyclic GMP (cGMP), thereby transmitting the NO signal into an ubiquitous intracellular second messenger.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:P16068}.
Tissue Location	Detected in brain cortex and cerebellum (at protein level).

Background

Mediates responses to nitric oxide (NO) by catalyzing the biosynthesis of the signaling molecule cGMP.

Images



Western Blot analysis of various cells using GCS-β-1 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.