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

Guanylyl Cyclase beta 1 Antibody

Rabbit mAb
Catalog # AP92018

Product Information

Application	WB, IHC
Primary Accession	Q02153
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	GCbeta1; GCS beta 1; GCS beta 3; GUC1B3; GUCSB3; GUCY1B1; Gucy1b1; GUCY1B3; SGC;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	70514

Additional Information

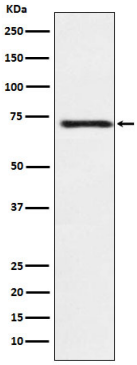
Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Guanylyl Cyclase beta 1
Description	Mediates responses to nitric oxide (NO) by catalyzing the biosynthesis of the signaling molecule cGMP.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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).

Images

Western blot analysis of Guanylyl Cyclase beta 1



expression in Human fetal brain lysate.

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