

Rabbit GNB5 Polyclonal Antibody | anti-GNB5 antibody

GNB5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324777	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GNB5; Polyclonal Antibody; GNB5 Antibody; FLJ37457; FLJ43714; G protein beta 5 subunit; G protein beta subunit 5L; GB 5; GB5; GBB5_HUMAN; Gbeta5; GNB 5; Guanine nucleotide binding protein (G protein) beta 5; Guanine nucleotide binding protein beta 5; Guanine nucleotide binding protein beta 5 subunit; Guanine nucleotide binding protein beta subunit 5L; Guanine nucleotide binding protein subunit beta 5; Guanine nucleotide-binding protein subunit beta-5; Transducin beta chain 5; anti-GNB5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GNB5 antibody detects endogenous levels of total GNB5
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	353
Applicable Applications for anti-GNB5 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Tissue Specificity	Widely expressed.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA324777 at 1/100 staining Human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from HepG2 cells, using GNB5 antibody.



IF (Immunofluorescence)

AAA324777 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GNB5 antibody	Function: Enhances GTPase-activating protein (GAP) activity of regulator of G protein signaling (RGS) proteins, hence involved in the termination of the signaling initiated by the G protein coupled receptors (GPCRs) by accelerating the GTP hydrolysis on the G-alpha subunits, thereby promoting their inactivation (Probable). Increases RGS9 GTPase-activating protein (GAP) activity, hence contributes to the deactivation of G protein signaling initiated by D2 dopamine receptors (PubMed:27677260). May play an important role in neuronal signaling, including in the parasympathetic, but not sympathetic, control of heart rate (By similarity). Subunit Structure: Component of a complex composed of RGS9 (isoform RGS9-1), GNB5 and RGS9BP; within this complex, the presence of GNB5 stabilizes both itself and RGS9 and increases RGS9 GTPase-activating protein (GAP) activity (By similarity) (PubMed:27677260). Interacts with RGS6 and RGS7 (PubMed:10339615, PubMed:10521509). Similarity: Belongs to the WD repeat G protein beta family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5729852
NCBI GeneID	10681
NCBI Accession #	NP_006569.1
NCBI GenBank Nucleotide #	NM_006578.3
UniProt Accession #	O14775; Q9HAU9; Q9UFT3; B2RBR5
Molecular Weight	Observed: 40 kD Predicted: 44 kDa
NCBI Official Full Name	guanine nucleotide-binding protein subunit beta-5 isoform a
NCBI Official Synonym Full Names	G protein subunit beta 5
NCBI Official Symbol	GNB5
NCBI Official Synonym Symbols	GB5; IDDCA; LADCI
NCBI Protein Information	guanine nucleotide-binding protein subunit beta-5
UniProt Protein Name	Guanine nucleotide-binding protein subunit beta-5
UniProt Gene Name	GNB5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.