

Rabbit GNB2L1 Polyclonal Antibody | anti-GNB2L1 antibody

GNB2L1 Antibody

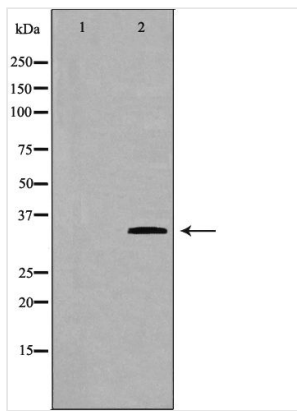
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326763	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

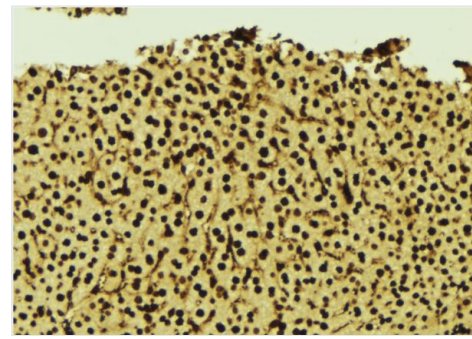
GNB2L1; Polyclonal Antibody; GNB2L1 Antibody; Cell proliferation-inducing gene 21 protein; GBLP_HUMAN; Gnb2-rs1; Gnb2l1; Guanine nucleotide binding protein (G protein) beta polypeptide 2 like 1; Guanine nucleotide binding protein beta polypeptide 2 like 1; Guanine nucleotide binding protein beta subunit 2 like 1; Guanine nucleotide binding protein beta subunit like protein 12.3; Guanine nucleotide binding protein subunit beta 2 like 1; Guanine nucleotide binding protein subunit beta like protein 12.3; Guanine nucleotide-binding protein subunit beta-2-like 1; Guanine nucleotide-binding protein subunit beta-like protein 12.3; H12.3; HLC-7; Human lung cancer oncogene 7 protein; lung cancer oncogene 7; OTTHUMP00000223704; OTTHUMP00000223870; OTTHUMP00000223891; OTTHUMP00000223893; OTTHUMP00000223900; OTTHUMP00000223902; OTTHUMP00000223930; OTTHUMP00000223931; PIG21; Proliferation inducing gene 21; Protein homologous to chicken B complex protein guanine nucleotide binding; RACK1; Receptor for activated C kinase 1; Receptor for activated C kinase; Receptor of activated protein kinase C 1; anti-GNB2L1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GNB2L1 antibody detects endogenous levels of total GNB2L1
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	317
Applicable Applications for anti-GNB2L1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GNB2L1
Subcellular Location	Cell Membrane. Located on plasma membrane of neuroblastoma NMB7 cells.
Tissue Specificity	In the liver, expressed at higher levels in activated hepatic stellate cells than in hepatocytes or Kupffer cells. Up-regulated in hepatocellular carcinomas and in the adjacent non-tumor liver tissue.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (89%), Bovine (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

**WB (Western Blot)**

Western blot analysis of Hela whole cell lysates, using GNB2L1 Antibody. The lane on the left is treated with the antigen-specific peptide.

**IHC (Immunohistochemistry)**

AAA326763 at 1/100 staining Mouse liver 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.

ADDITIONAL INFORMATION

Related Product Information for anti-GNB2L1 antibody

Function: Scaffolding protein involved in the recruitment, assembly and/or regulation of a variety of signaling molecules. Interacts with a wide variety of proteins and plays a role in many cellular processes. Component of the 40S ribosomal subunit involved in translational repression (PubMed:23636399). Involved in the initiation of the ribosome quality control (RQC), a pathway that takes place when a ribosome has stalled during translation, by promoting ubiquitination of a subset of 40S ribosomal subunits (PubMed:28132843). Binds to and stabilizes activated protein kinase C (PKC), increasing PKC-mediated phosphorylation. May recruit activated PKC to the ribosome, leading to phosphorylation of EIF6. Inhibits the activity of SRC kinases including SRC, LCK and YES1. Inhibits cell growth by prolonging the G0/G1 phase of the cell cycle. Enhances phosphorylation of BMAL1 by PRKCA and inhibits transcriptional activity of the BMAL1-CLOCK heterodimer. Facilitates ligand-independent nuclear translocation of AR following PKC activation, represses AR transactivation activity and is required for phosphorylation of AR by SRC. Modulates IGF1R-dependent integrin signaling and promotes cell spreading and contact with the extracellular matrix. Involved in PKC-dependent translocation of ADAM12 to the cell membrane. Promotes the ubiquitination and proteasome-mediated degradation of proteins such as CLEC1B and HIF1A. Required for VANG2 membrane localization, inhibits Wnt signaling, and regulates cellular polarization and oriented cell division during gastrulation. Required for PTK2/FAK1 phosphorylation and dephosphorylation. Regulates internalization of the muscarinic receptor CHRM2. Promotes apoptosis by increasing oligomerization of BAX and disrupting the interaction of BAX with the anti-apoptotic factor BCL2L. Inhibits TRPM6 channel activity. Regulates cell surface expression of some GPCRs such as TBXA2R. Plays a role in regulation of FLT1-mediated cell migration. Involved in the transport of ABCB4 from the Golgi to the apical bile canalicular membrane (PubMed:19674157). Promotes migration of breast carcinoma cells by binding to and activating RHOA (PubMed:20499158).

Subunit Structure: Monomer; also forms homodimers and homooligomers (PubMed:20529362, PubMed:15140893). Interacts with CPNE3 (PubMed:20010870). May interact with ABCB4 (PubMed:19674157). Component of the small (40S) ribosomal subunit (By similarity). Interacts with the 80S ribosome (PubMed:23636399). Binds SLC9A3R1. Forms a ternary complex with TRIM63 and PRKCE. Interacts with HAPB4, KRT1 and OTUB1. Interacts with SRC (via SH2 domain); the interaction is enhanced by tyrosine phosphorylation of RACK1. Recruited in a circadian manner into a nuclear complex which also includes BMAL1 and PRKCA. Interacts with AR. Interacts with IGF1R but not with INSR. Interacts with ADAM12. Interacts with CLEC1B (via N-terminal region) and with HIF1A; the interaction promotes their degradation. Interacts with RHOA; this enhances RHOA activation and promotes cell migration. Interacts with CHRM2; the interaction regulates CHRM2 internalization. Interacts with TRPM6 (via kinase domain). Interacts with PTK2/FAK1; required for PTK2/FAK1 phosphorylation and dephosphorylation. Interacts with FLT1. Interacts with TBXA2R isoform 2. Interacts with HRAS. Interacts with LARP4B. Interacts with LARP4 (PubMed:21098120). Interacts with PKD2L1.

Post-translational Modifications: Phosphorylated on Tyr-228 and/or Tyr-246 by SRC. This is required for binding to SRC. (Microbial infection) Phosphorylated by vaccinia virus B1 kinase on serine and threonine residues; this phosphorylation remodels the ribosome properties, favoring the viral mRNA translation.

Similarity: The 7 WD repeats mediate protein-protein interactions with binding partners. Belongs to the WD repeat G protein beta family. Ribosomal protein RACK1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174447
NCBI GeneID	10399
NCBI Accession #	NP_006089.1
NCBI GenBank Nucleotide #	NM_006098.4
UniProt Accession #	P63244; P25388; P99049; Q53HU2; Q5J8M6; Q5VLR4; Q6FH47; B3KTJ0; D3DWS0
Molecular Weight	Observed: 35 kDa Predicted: 36 kDa
NCBI Official Full Name	receptor of activated protein C kinase 1
NCBI Official Synonym Full Names	receptor for activated C kinase 1
NCBI Official Symbol	RACK1
NCBI Official Synonym Symbols	H12.3; HLC-7; PIG21; GNB2L1; Gnb2-rs1
NCBI Protein Information	receptor of activated protein C kinase 1
UniProt Protein Name	Receptor of activated protein C kinase 1
UniProt Gene Name	RACK1
UniProt Synonym Gene Names	HLC-7

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gnb2l1-antibody-immunohistochemistry-western-blot-elisa/326763>