

ARG58816 anti-GNB1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GNB1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Bov, Dog, Hm, Hrs, Mk, Rb, Zfsh
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GNB1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 2-42 of Human GNB1 (SELDQLRQEAEQLKNQIRDARKACADATLSQITNNIDPVGR).
Conjugation	Un-conjugated
Alternate Names	Guanine nucleotide-binding protein G(l)/G(S)/G(T) subunit beta-1; Transducin beta chain 1

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-Fr	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml

Application Note
IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

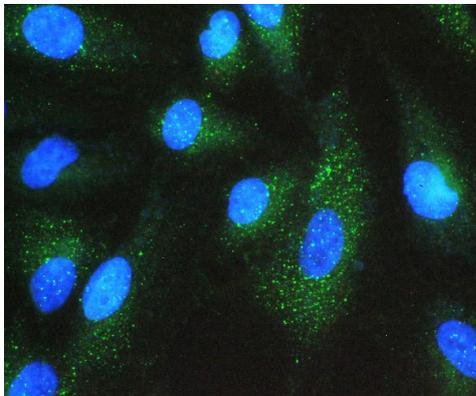
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

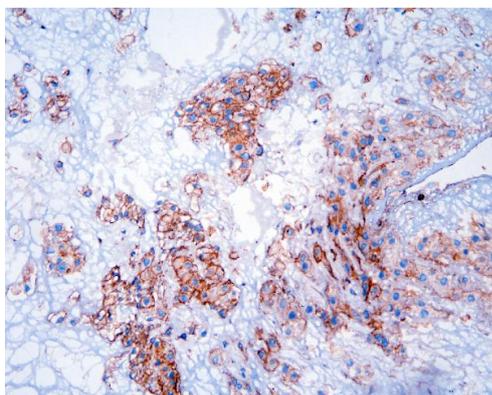
Gene Symbol	GNB1
Gene Full Name	guanine nucleotide binding protein (G protein), beta polypeptide 1
Background	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]
Function	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. [UniProt]
Calculated Mw	37 kDa
PTM	Phosphorylation at His-266 by NDKB contributes to G protein activation by increasing the high energetic phosphate transfer onto GDP. [UniProt]

Images



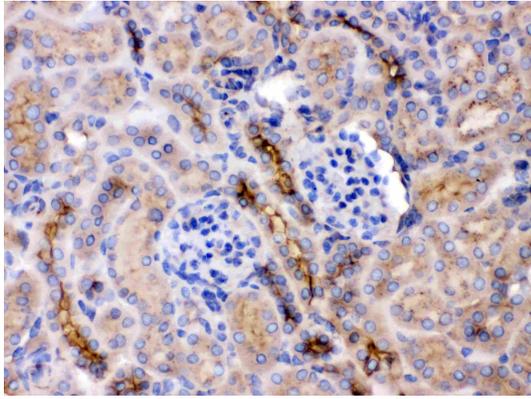
ARG58816 anti-GNB1 antibody ICC/IF image

Immunofluorescence: A549 cells were blocked with 10% goat serum and then stained with ARG58816 anti-GNB1 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



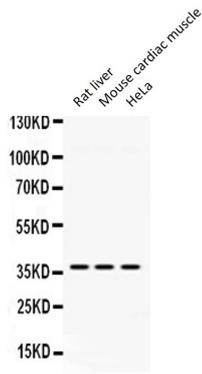
ARG58816 anti-GNB1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Human placenta tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58816 anti-GNB1 antibody at 1 µg/ml dilution, overnight at 4°C.



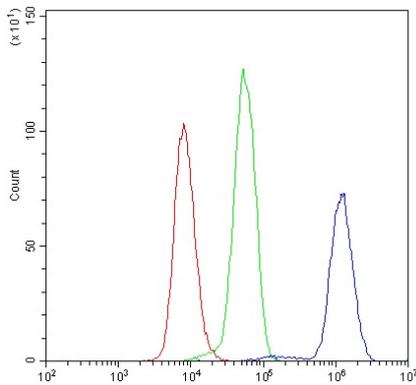
ARG58816 anti-GNB1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney stained with ARG58816 anti-GNB1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



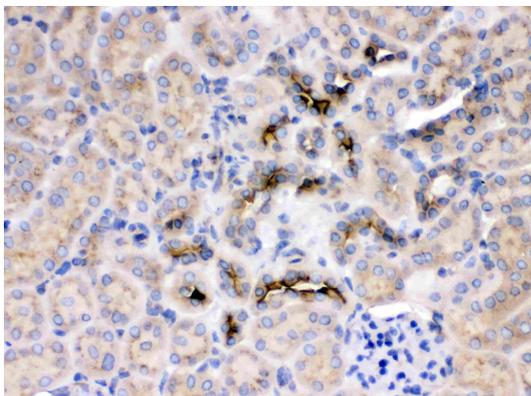
ARG58816 anti-GNB1 antibody WB image

Western blot: Rat liver, Mouse cardiac muscle and HeLa lysates stained with ARG58816 anti-GNB1 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



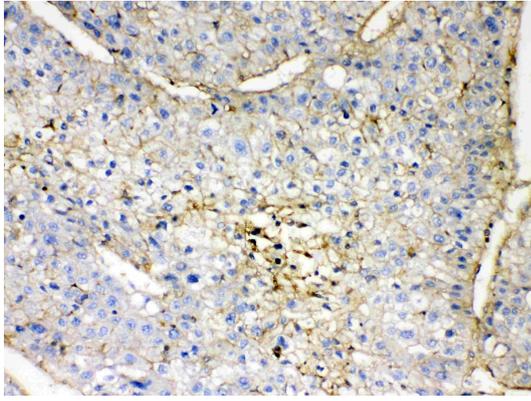
ARG58816 anti-GNB1 antibody FACS image

Flow Cytometry: U937 cells were blocked with 10% normal goat serum and then stained with ARG58816 anti-GNB1 antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG58816 anti-GNB1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney stained with ARG58816 anti-GNB1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



ARG58816 anti-GNB1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver cancer stained with ARG58816 anti-GNB1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.