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

GB5 / GNB5 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11510

Specification

GB5 / GNB5 Antibody - Product Information

Application	**IHC**
Primary Accession	O14775
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**44kDa KDa**

GB5 / GNB5 Antibody - Additional Information

Gene ID 10681

Other Names
Guanine nucleotide-binding protein subunit beta-5, Gbeta5, Transducin beta chain 5, GNB5

Target/Specificity
Peptide from the D1 blade of GNB5 protein.

Reconstitution & Storage
+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions
GB5 / GNB5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GB5 / GNB5 Antibody - Protein Information

Name GNB5

Function
Enhances GTPase-activating protein (GAP) activity of regulator of G protein signaling (RGS) proteins, such as RGS7 and RGS9, 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 (PubMed:27677260). Increases RGS7 GTPase-activating protein (GAP) activity, thereby regulating mood and cognition (By similarity). Increases RGS9 GTPase-activating protein (GAP) activity, hence contributes to the deactivation of G protein signaling initiated by D(2) 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).

Cellular Location

Membrane {ECO:0000250|UniProtKB:P62881}.

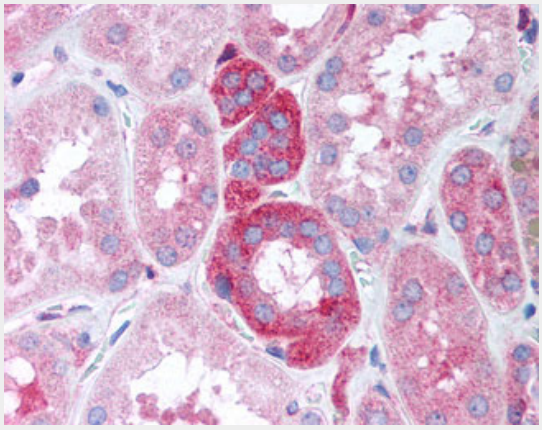
Tissue Location
Widely expressed..

GB5 / GNB5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GB5 / GNB5 Antibody - Images



Anti-GNB5 antibody IHC of human kidney.

GB5 / GNB5 Antibody - Background

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.

GB5 / GNB5 Antibody - References

Jones P.G.,et al.Biochim. Biophys. Acta 1402:288-291(1998).
Wiemann S.,et al.Genome Res. 11:422-435(2001).
Puhl H.L. III,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).