

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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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}.

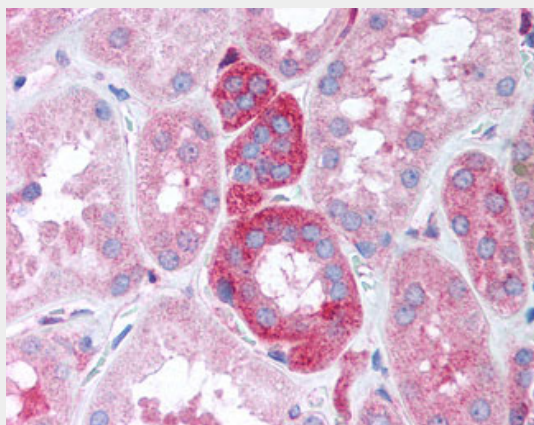
Tissue Location

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 Cytometry](#)
- [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).