10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

# Gβ 5 Polyclonal Antibody
**Catalog # AP70279**

## Specification

### Gβ 5 Polyclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC-P** |
| Primary Accession | O14775 |
| Reactivity | **Human, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |

### Gβ 5 Polyclonal Antibody - Additional Information

**Gene ID** 10681

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

**Dilution**
WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
IHC-P~~N/A

**Format**
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**
-20℃

### Gβ 5 Polyclonal 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:<a href="http://www.uniprot.org/citations/27677260" target="_blank">27677260</a>). 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:<a href="http://www.uniprot.org/citations/27677260" target="_blank">27677260</a>). 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}.

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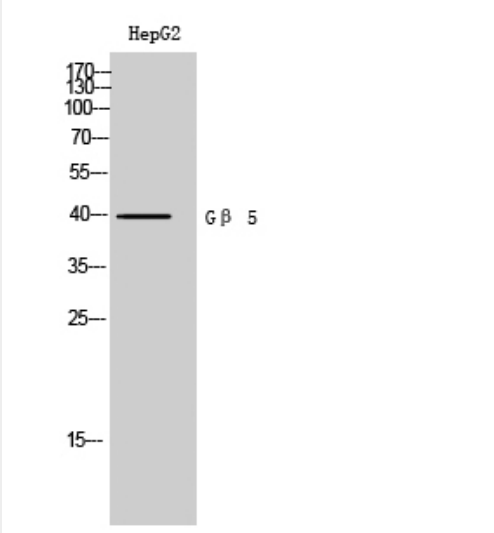
**Tissue Location**
Widely expressed..

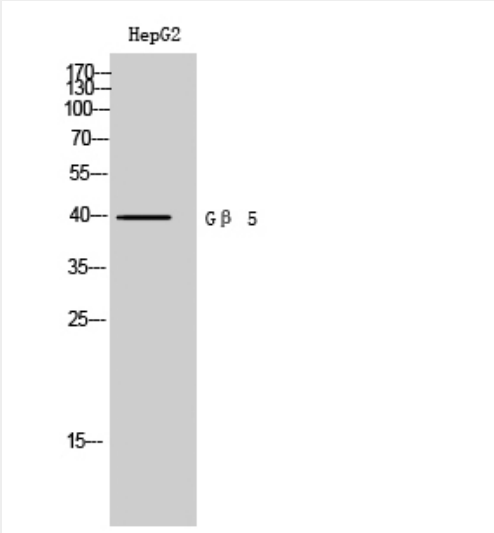
## Gβ 5 Polyclonal Antibody - Protocols

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

## Gβ 5 Polyclonal Antibody - Images



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## Gβ 5 Polyclonal Antibody - Background

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 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).