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# GPR171 Antibody (Cytoplasmic Domain)

**Rabbit Polyclonal Antibody**

**Catalog # ALS10305**

## Specification

### GPR171 Antibody (Cytoplasmic Domain) - Product Information

| | |
|---|---|
| Application | **IHC** |
| Primary Accession | O14626 |
| Reactivity | **Human, Bovine, Dog** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **37kDa KDa** |

### GPR171 Antibody (Cytoplasmic Domain) - Additional Information

**Gene ID** 29909

**Other Names**
Probable G-protein coupled receptor 171, G-protein coupled receptor H963, GPR171, H963

**Target/Specificity**
Human GPR171. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**
Long term: -70°C; Short term: +4°C

**Precautions**
GPR171 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

### GPR171 Antibody (Cytoplasmic Domain) - Protein Information

**Name** GPR171 (HGNC:30057)

**Synonyms** H963

**Function**
G-protein coupled receptor for Big LEN, a 16-amino acid neuropeptide produced from the precursor protein, proSAAS (encoded by PCSK1N). Acts through a G(i)-alpha-mediated pathway in response to Big LEN. Big LEN-GPR171 system plays an important role in regulating feeding and metabolism. Also plays a role in modulating fear and anxiety-like behaviors in the basolateral amygdala. Big LEN-GPR171 modulates the mu-type opioid receptor signaling and antinociception (By similarity). Acts as a negative regulator T cell function (PubMed:<a href="http://www.uniprot.org/citations/34615877" target="_blank">34615877</a>).

**Cellular Location**
Cell membrane {ECO:0000250|UniProtKB:Q8BG55}; Multi-pass membrane protein.

Note=Colocalized with GPR83 in the paraventricular nucleus. {ECO:0000250|UniProtKB:Q8BG55}

**Tissue Location**
Expressed in both T-cell subsets and natural killer cells, while it is undetectable in B cells or CD14(+) monocytes Expressed in peripheral blood mononuclear cells (PBMC) and Jurkat cells (at protein level).

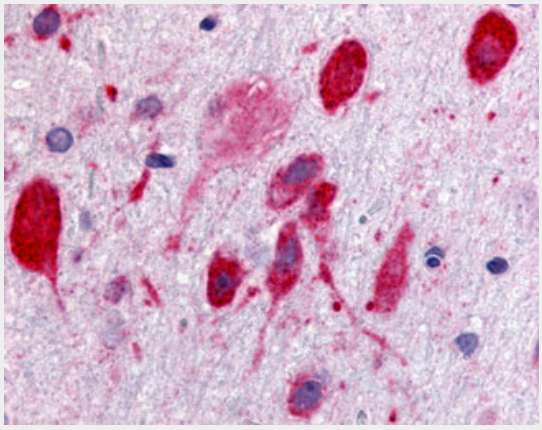
**Volume**
50 µl

## GPR171 Antibody (Cytoplasmic Domain) - 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

## GPR171 Antibody (Cytoplasmic Domain) - Images



Anti-GPR171 antibody ALS10305 IHC of rat brain, neurons.

## GPR171 Antibody (Cytoplasmic Domain) - Background

Orphan receptor.

## GPR171 Antibody (Cytoplasmic Domain) - References

Jacobs K.A.,et al.Gene 198:289-296(1997).
Joensuu T.,et al.Am. J. Hum. Genet. 69:673-684(2001).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.