

## **GRPR Antibody (Cytoplasmic Domain)**

Rabbit Polyclonal Antibody Catalog # ALS10179

## **Specification**

## **GRPR Antibody (Cytoplasmic Domain) - Product Information**

Application IHC-P, ICC Primary Accession P30550

Reactivity Human, Mouse, Hamster, Monkey, Pig,

**Bovine**, Dog

Host
Clonality
Polyclonal
Calculated MW
Dilution
Polyclonal
43kDa KDa
IHC-P~~N/A

## GRPR Antibody (Cytoplasmic Domain) - Additional Information

#### **Gene ID 2925**

#### **Other Names**

Gastrin-releasing peptide receptor, GRP-R, GRP-preferring bombesin receptor, GRPR

#### Target/Specificity

Human GRPR. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except ADAM28 (41%).

#### **Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

## **Precautions**

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

## GRPR Antibody (Cytoplasmic Domain) - Protein Information

## Name GRPR

### **Function**

Receptor for gastrin-releasing peptide (GRP) (PubMed: <a

href="http://www.uniprot.org/citations/1655761" target="\_blank">1655761</a>). Signals via association with G proteins that activate a phosphatidylinositol-calcium second messenger system, resulting in Akt phosphorylation. Contributes to the regulation of food intake. Contributes to the perception of prurient stimuli and transmission of itch signals in the spinal cord that promote scratching behavior, but does not play a role in the perception of pain. Contributes primarily to nonhistaminergic itch sensation. In one study, shown to act in the amygdala as part of an inhibitory network which inhibits memory specifically related to learned fear (By similarity). In another study, shown to contribute to disinhibition of glutamatergic cells in the auditory cortex via



signaling on vasoactive intestinal peptide- expressing cells which leads to enhanced auditory fear memories (By similarity). Contributes to the induction of sighing through signaling in the pre-Botzinger complex, a cluster of several thousand neurons in the ventrolateral medulla responsible for inspiration during respiratory activity (By similarity).

### **Cellular Location**

Cell membrane; Multi-pass membrane protein

## **Tissue Location**

Highly expressed in pancreas (PubMed:11245983). Also expressed in stomach, adrenal cortex and brain (PubMed:11245983) In brain, expressed in cells throughout the cortex (PubMed:34610277)

### Volume

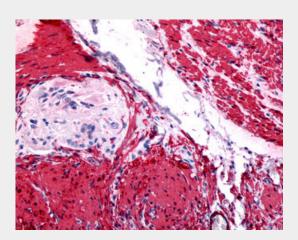
50 µl

## **GRPR Antibody (Cytoplasmic Domain) - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## GRPR Antibody (Cytoplasmic Domain) - Images



Anti-GRPR antibody ALS10179 IHC of human colon.

# GRPR Antibody (Cytoplasmic Domain) - Background

Receptor for gastrin releasing peptide (GRP). This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.

## **GRPR Antibody (Cytoplasmic Domain) - References**

Corjay M.H., et al.J. Biol. Chem. 266:18771-18779(1991). Xiao D., et al. Gene 264:95-103(2001).





Ota T.,et al.Nat. Genet. 36:40-45(2004). Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.