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GRPR Antibody (Cytoplasmic Domain)

Rabbit Polyclonal Antibody
Catalog # ALS10179

Specification

GRPR Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC**
Primary Accession	P30550
Reactivity	**Human, Mouse, Hamster, Monkey, Pig, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

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:1655761). 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)

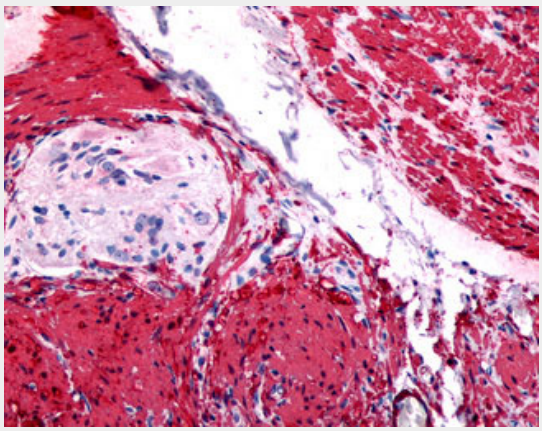
Volume
50 µl

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
- Immunofluorescence
- Immunoprecipitation
- 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.

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