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Goat Anti-GRPR Antibody (internal region)

Purified Goat Polyclonal Antibody
Catalog # AF4258a

Specification

Goat Anti-GRPR Antibody (internal region) - Product Information

Application	**E**
Primary Accession	P30550
Other Accession	NP_005305.1
Predicted	**Human, Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5**
Calculated MW	**43199**

Goat Anti-GRPR Antibody (internal region) - Additional Information

Gene ID 2925

Other Names
GRPR; gastrin-releasing peptide receptor; BB2; GRP-R; GRP-preferring bombesin receptor; bombesin receptor 2

Dilution
E~~N/A

Format
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen
Peptide with sequence C-HPFHEESTNQT, from the internal region of the protein sequence according to NP_005305.1.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-GRPR Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GRPR Antibody (internal region) - 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)

Goat Anti-GRPR Antibody (internal region) - 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

Goat Anti-GRPR Antibody (internal region) - Images

Goat Anti-GRPR Antibody (internal region) - References

The human gastrin-releasing peptide receptor gene structure, its tissue expression and promoter. Xiao D, Wang J, Hampton LL, Weber HC. Gene 2001 Feb 264 (1): 95-103.