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Ghrelin Receptor Polyclonal Antibody

Catalog # AP63685

Product Information

Application	WB, IHC-P, IF, ICC
Primary Accession	Q92847
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41329

Additional Information

Gene ID	2693
Other Names	Growth hormone secretagogue receptor type 1 (GHS-R) (GH-releasing peptide receptor) (GHRP) (Ghrelin receptor)
Dilution	WB~~WB 1:1000-2000, IHC 1:100-200 IHC-P~~WB 1:1000-2000, IHC 1:100-200 IF~~1:50~200 ICC~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

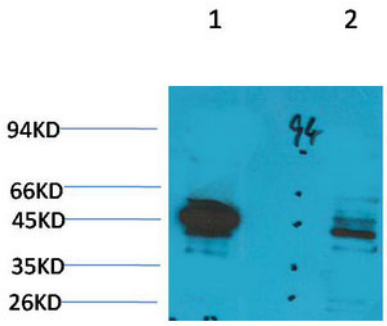
Name	GHSR
Function	G protein-coupled receptor specific to ghrelin, an appetite- regulating peptide hormone commonly found in stomach (PubMed:35027551, PubMed:39833471). Upon activation, stimulates appetite and promotes growth hormone secretion (PubMed:10604470, PubMed:11322507, PubMed:35027551, PubMed:39833471). Ghrelin binding causes a conformation change that triggers signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors, such as phospholipase C (By similarity). GHSR is coupled to G(q) G proteins and mediates production of diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) (By similarity). Also binds other growth hormone releasing peptides (GHRP) (e.g. Met-enkephalin and GHRP- 6) as well as non-peptide, low molecular weight secretagogues (e.g. L- 692, 429, MK-0677, adenosine) (PubMed:10604470, PubMed:11322507). Also plays a role in synaptic plasticity independently of ghrelin by forming a heteromer with the dopamine receptors DRD1 and DRD2 in neurons (By similarity). Following DRD1 activation by dopamine in hippocampal neurons, GHSR acts as a coreceptor, resulting in DRD1 coupling to G(q) at the expense of G(s), initiating

	hippocampal synaptic plasticity involved in memory and learning (By similarity). Following DRD2 activation by dopamine in lumbosacral defecation centers, GHSR acts as a coreceptor, resulting in DRD1 coupling to G(q) at the expense of G(i)/G(o), regulating defecation (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Pituitary and hypothalamus.

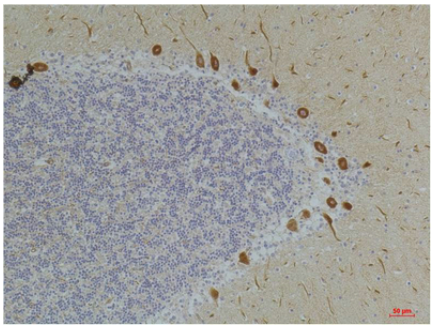
Background

Receptor for ghrelin, coupled to G-alpha-11 proteins. Stimulates growth hormone secretion. Binds also other growth hormone releasing peptides (GHRP) (e.g. Met-enkephalin and GHRP-6) as well as non-peptide, low molecular weight secretagogues (e.g. L-692,429, MK-0677, adenosine).

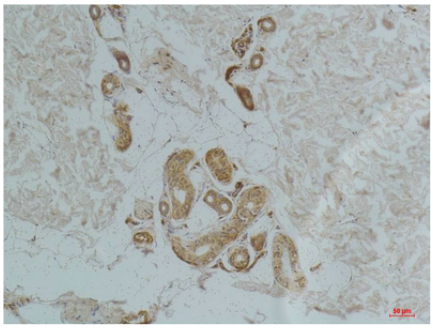
Images



Western blot analysis of 1) Rat LiverTissue, 2)Jurkat with Ghrelin Receptor Rabbit pAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Human BrainTissue using Ghrelin Receptor Rabbit pAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Skin Tissue using Ghrelin Receptor Rabbit pAb diluted at 1:200.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.