PTH2R Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTH2R, Polyclonal Antibody
Full Product Name	PTH2R Polyclonal Conjugated Antibody
Product Gene Name	anti-PTH2R antibody
Product Synonym Names	PTH2R Conjugated Antibody; PTH2R; PTHR2; parathyroid hormone 2 receptor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	62,236 Da
OMIM	601469
3D Structure	ModBase 3D Structure for P49190
Immunogen	Recombinant fusion protein of human PTH2R (NP_005039.1).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-PTH2R antibody	Most Applications
Application Notes for anti-PTH2R antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-PTH2R antibody	The protein encoded by this gene is a member of the G-protein coupled receptor 2 family. This protein is a receptor for parathyroid hormone (PTH). This receptor is more selective in ligand recognition and has a more specific tissue distribution compared to parathyroid hormone receptor 1 (PTHR1). It is activated only by PTH and not by parathyroid hormone-like hormone (PTHLH) and is particularly abundant in brain and pancreas. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-PTH2R antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PTH2R purchase	MBS9441693 is an antibody targeting PTH2R. Also known as PTH2R Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTH2R. It may not necessarily be applicable to this product.

NCBI GI #	4826954
NCBI GeneID	5746
NCBI Accession #	NP_005039.1
UniProt Primary Accession #	P49190
UniProt Secondary Accession #	Q8N429
UniProt Related Accession #	P49190
GenBank Nucleotide #	NM_005048.3
NCBI Official Full Name	parathyroid hormone 2 receptor
NCBI Official Synonym Full Names	parathyroid hormone 2 receptor
NCBI Official Symbol	PTH2R
NCBI Official Synonym Symbols	PTHR2
UniProt Protein Name	Parathyroid hormone 2 receptor
Protein Family	Parathyroid hormone 2 receptor
UniProt Gene Name	PTH2R
UniProt Synonym Gene Names	PTHR2; PTH2 receptor
UniProt Entry Name	PTH2R_HUMAN
NCBI Protein Information	parathyroid hormone 2 receptor; PTH2 receptor; parathyroid hormone receptor 2
UniProt Comments for PTH2R	PTH2R: This is a specific receptor for parathyroid hormone. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. PTH2R may be responsible for PTH effects in a number of physiological systems. It may play a significant role in pancreatic function. PTH2R presence in neurons indicates that it may function as a neurotransmitter receptor. Belongs to the G-protein coupled receptor 2 family. Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 2; Membrane protein, integral Chromosomal Location of Human Ortholog: 2q33 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: parathyroid hormone receptor activity Biological Process: G-protein coupled receptor protein signaling pathway
Research Articles on PTH2R	**1.** Data suggest role for PTH2R signaling in postnatal growth plate development and subsequent bone mass acquisition; overexpression of human PTH2R in chondrocytes of transgenic mice has key consequences on postnatal development of endochondral skeleton.
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