Datasheet for ABIN7043430

anti-PTH2R antibody (Extracellular)

1 Image

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Overview

Quantity:	25 µL
Target:	PTH2R
Binding Specificity:	AA 125-137, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTH2R antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to Parathyroid Hormone 2 Receptor
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CFLQPDINIGKQE, corresponding to amino acid residues 125-137 of rat PTH2R
Isotype:	IgG
Specificity:	Extracellular, N-terminus
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Mouse - identical, human - 11,13 amino acid residues identical
Characteristics:	Anti-PTH2R (extracellular) Antibody (ABIN7043430, ABIN7045114 and ABIN7045115) is a highly specific antibody directed against an extracellular epitope of the rat Parathyroid hormone

Product Details

	2 receptor. The antibody can be used in western blot analysis. It has been designed to recognize PTH2 receptor from human, rat and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	PTH2R
Alternative Name:	PTH2R (PTH2R Products)
Background:	Parathyroid hormone 2 receptor, PTH2 receptor, PTHR2,PTH (parathyroid hormone) regulates Ca2+ and phosphate homeostasis through its action on specific receptors in kidney and bone. There are two known PTH receptors in humans, PTH receptor type 1 (PTH1 receptor) and PTH receptor type 2 (PTH2 receptor)1.The PTH2 receptor is a member of a class B subfamily of G-protein-coupled receptors that includes the receptors for the glucagon-GHRH-VIP family of peptides (glucagon, GLP-I, GIP, GHRH, VIP, secretin, PACAP) and for calcitonin and CRF2. PTH2 receptor shares the same basic structure of the GPCR superfamily of proteins. A defining feature of the family B receptors is the relatively long extracellular N-terminal domain, which comprises about 150 amino acids and is important for ligand binding. The seven transmembrane domains are believed to be arranged in a circular or oval configuration, as seen in rhodopsin. The transmembrane domains are connected by three extracellular and three intracellular loops, and a C-terminal tail of about 130 amino acids extends intracellularly3.Northern blots of human messenger RNA (mRNA) show that the PTH2 receptor is most highly expressed in the central nervous system, preferentially in the hypothalamic regions and is also detected in the pancreas, testis, placenta, and lung4.Recent data support that PTH2 receptor is involved in hypothalamic releasing-factor secretion and pain5. Alternative names: PTH2R, Parathyroid hormone 2 receptor, PTH2 receptor, PTHR2
Gene ID:	81753
NCBI Accession:	NM_005048
UniProt:	P70555
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody

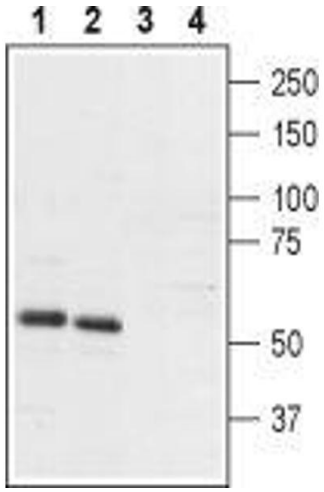
Application Details

	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: 1:600
Comment:	Negative Control: (ABIN7236237) Blocking Peptide: (ABIN7236237)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) brain membranes: - 1,2. Anti-PTH2R (extracellular) Antibody (ABIN7043430, ABIN7045114 and ABIN7045115), (1:600).3,4. Anti-PTH2R (extracellular) Antibody, preincubated with PTH2R (extracellular) Blocking Peptide (#BLP-PR052).