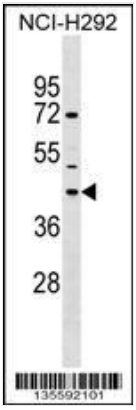
NPBWR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPBWR1, Polyclonal Antibody
Full Product Name	NPBWR1, CT (NPBWR1, GPR7, Neuropeptides B/W receptor type 1, G-protein coupled receptor 7) (Biotin)
Product Gene Name	anti-NPBWR1 antibody
Product Synonym Names	NPBWR1; GPR7; Neuropeptides B/W receptor type 1; G-protein coupled receptor 7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	36,103 Da
OMIM	600730
3D Structure	ModBase 3D Structure for P48145
Immunogen	NPBWR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 220-250 amino acids from the C-terminal region of human NPBWR1.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-NPBWR1 antibody	Antibodies; G Protein Receptors
Applications Tested/Suitable for anti-NPBWR1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-NPBWR1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NPBWR1 antibody	NPBWR1 interacts specifically with a number of opioid ligands. Receptor for neuropeptides B and W, which may be involved in neuroendocrine system regulation, food intake and the organization of other signals. Has a higher affinity for neuropeptide B.
Product References and Citations for anti-NPBWR1 antibody	Luttrell, L.M. Mol. Biotechnol. 39(3):239-264(2008). Lambert, N.A. Sci Signal 1 (25), RE5 (2008): Cottrell, S., et al. J. Urol. 177(5):1753-1758(2007). Mazzocchi, G., et al. J. Clin. Endocrinol. Metab. 90(6):3466-3471(2005). Zaratin, P.F., et al. Mol. Cell. Neurosci. 28(1):55-63(2005).
Other Notes	Small volumes of anti-NPBWR1 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 NPBWR1 purchase	MBS6326184 is an antibody targeting NPBWR1. Also known as NPBWR1, CT (NPBWR1, GPR7, Neuropeptides B/W receptor type 1, G-protein coupled receptor 7) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NPBWR1 antibody
NPBWR1 Antibody (C-term) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the NPBWR1 Antibody detected the NPBWR1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPBWR1. It may not necessarily be applicable to this product.

NCBI GI #	53828924
NCBI GeneID	2831
NCBI Accession #	NP_005276.2
UniProt Primary Accession #	P48145
UniProt Secondary Accession #	Q6NTC7
UniProt Related Accession #	P48145
GenBank Nucleotide #	NM_005285.3
NCBI Official Full Name	neuropeptides B/W receptor type 1
NCBI Official Synonym Full Names	neuropeptides B/W receptor 1
NCBI Official Symbol	NPBWR1
NCBI Official Synonym Symbols	GPR7
UniProt Protein Name	Neuropeptides B/W receptor type 1
UniProt Synonym Protein Names	G-protein coupled receptor 7
Protein Family	Neuropeptides B/W receptor
UniProt Gene Name	NPBWR1
UniProt Synonym Gene Names	GPR7
UniProt Entry Name	NPBW1_HUMAN
NCBI Protein Information	neuropeptides B/W receptor type 1; neuropeptide B/W receptor 1; G protein-coupled receptor 7; G-protein coupled receptor 7; opioid-somatostatin-like receptor 7

UniProt Comments for NPBWR1	NPBWR1: Interacts specifically with a number of opioid ligands. Receptor for neuropeptides B and W, which may be involved in neuroendocrine system regulation, food intake and the organization of other signals. Has a higher affinity for neuropeptide B. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 8p22-q21.13 Cellular Component: neuron projection; integral to plasma membrane; plasma membrane; integral to membrane Molecular Function: neuropeptide binding; protein binding; neuropeptide receptor activity; opioid receptor activity Biological Process: synaptic transmission; G-protein coupled receptor protein signaling pathway; G-protein signaling, coupled to cyclic nucleotide second messenger; neuropeptide signaling pathway; regulation of metabolic process
Research Articles on NPBWR1	**1.** screening of GPR7 gene mutations among lean and obese subjects revealed a Tyr135Phe allelic variant that is fairly common in the study population. This variant is unlikely to cause a functional derangement of the receptor
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