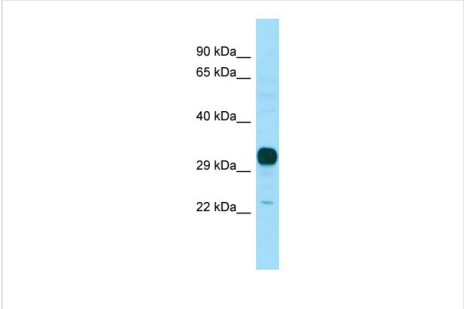
NPBWR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPBWR1, Polyclonal Antibody
Full Product Name	NPBWR1 Antibody - N-terminal region
Product Gene Name	anti-NPBWR1 antibody
Product Synonym Gene Name	GPR7; MGC129755
Immunogen Sequence	Synthetic peptide located within the following region: FSEPWPANAS GPDPALSCSN ASTLAPLPAP LAVAVPVVYA VICAVGLAGN
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	NPBWR1 peptide (MBS3241473) is used for blocking the activity of NPBWR1 antibody (MBS3216574)
Molecular Weight	36kDa
OMIM	600730
3D Structure	ModBase 3D Structure for P48145
Homology	Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N-terminal region of Human NPBWR1
Product Categories/Family for anti-NPBWR1 antibody	Polyclonal; Signaling Intermediate
Applications Tested/Suitable for anti-NPBWR1 antibody	Western Blot (WB)
Related Product Information for anti-NPBWR1 antibody	This is a rabbit polyclonal antibody against NPBWR1. It was validated on Western Blot Target Description: NPBWR1 interacts specifically with a number of opioid ligands. NPBWR1 is a receptor for neuropeptides B and W, which may be involved in neuroendocrine system regulation, food intake and the organization of other signals. NPBWR1 has a higher affinity for neuropeptide B.
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	MBS3216574 is an antibody targeting NPBWR1. Also known as NPBWR1 Antibody - N-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NPBWR1 antibody
WB Suggested Anti-NPBWR1 AntibodyTitration: 1.0 ug/mlPositive Control: Fetal Brain

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
UniProt Primary Accession #	P48145
UniProt Related Accession #	P48145
GenBank Nucleotide #	NM_005285
NCBI Official Full Name	neuropeptides B/W receptor type 1
NCBI Official Synonym Full Names	neuropeptides B and 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
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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