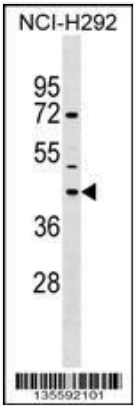
# NPBWR1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | NPBWR1, Polyclonal Antibody |
| **Full Product Name** | NPBWR1, CT (NPBWR1, GPR7, Neuropeptides B/W receptor type 1, G-protein coupled receptor 7) (APC) |
| **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 Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial 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** | APC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-NPBWR1 antibody** | Antibodies; G Protein Receptors |
| **Applications Tested/Suitable for anti-NPBWR1 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-NPBWR1 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>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. |

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| **Searchable Terms for NPBWR1 purchase** | MBS6326183 is an antibody targeting NPBWR1. Also known as NPBWR1, CT (NPBWR1, GPR7, Neuropeptides B/W receptor type 1, G-protein coupled receptor 7) (APC). 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.

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| **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 |

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| **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.<br><br>Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR<br><br>Chromosomal Location of Human Ortholog: 8p22-q21.13<br><br>Cellular Component: neuron projection; integral to plasma membrane; plasma membrane; integral to membrane<br><br>Molecular Function: neuropeptide binding; protein binding; neuropeptide receptor activity; opioid receptor activity<br><br>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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