

## Product datasheet for **AM26729PU-N**

### GPR7 (NPBWR1) Mouse Monoclonal Antibody [Clone ID: 1F9]

#### Product data:

|                        |  |
|------------------------|--|
| Product Type:          | Primary Antibodies   |
| Clone Name:            | 1F9  |
| Applications:          | IHC  |
| Recommended Dilution:  | <b>Immunohistochemistry on paraffin sections:</b> 5 µg/ml (1/80).<br>Predigestion with proteinase K required.<br><i>Positive control:</i> Human hippocampus.   |
| Reactivity:            | Human  |
| Host:                  | Mouse  |
| Isotype:               | IgG2a  |
| Clonality:             | Monoclonal   |
| Immunogen:             | DNA vaccine  |
| Specificity:           | This antibody detects human NPBWR1.  |
| Formulation:           | Phosphate buffered saline pH 7.2 (PBS)<br>State: Purified<br>State: Lyophilized affinity purified Ig fraction from serum-free cell culture supernatant<br>Stabilizer: 5 mg/ml BSA<br>Preservative: 0.1% Kathon         |
| Reconstitution Method: | Reconstitute by adding 0.5 ml distilled water.   |
| Purification:          | Affinity Chromatography on Protein G   |
| Conjugation:           | Unconjugated   |
| Storage:               | Store lyophilized at 2-8°C for 6 month or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.<br>Avoid repeated freezing and thawing. |
| Stability:             | Shelf life: one year from despatch.  |
| Gene Name:             | neuropeptides B/W receptor 1   |
| Database Link:         | <a href="#">Entrez Gene 2831 Human P48145</a>  |



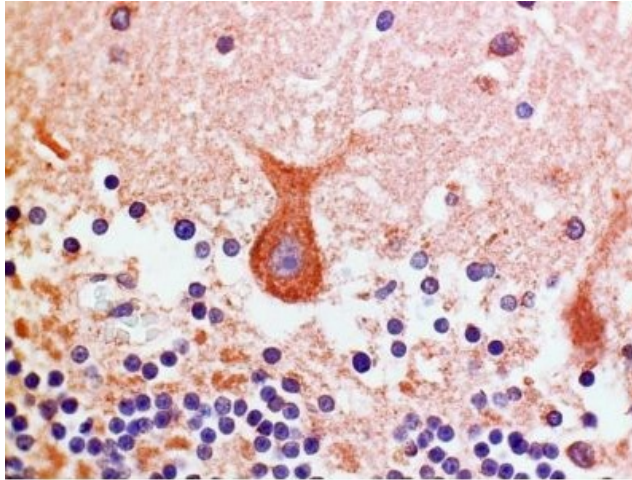
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**Background:**

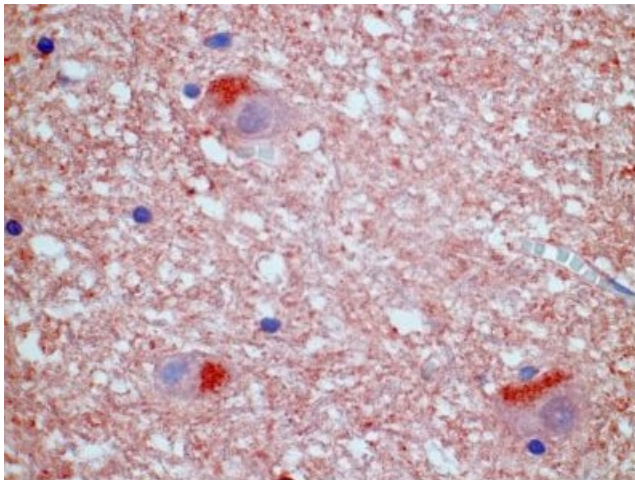
Neuropeptides B/W receptor type 1 (NPBWR1) is a 328 amino acid protein with three potential glycosylation sites and one disulfide bond. It interacts specifically with a number of opioid ligands. Most notably, it is a receptor for neuropeptides B and W, which are involved in neuroendocrine system regulation, food intake and behaviour. The highest expression of GPR7 has been described in the amygdala and hypothalamic nuclei known to regulate feeding and social behaviour. GPR7 has a higher affinity for neuropeptide B than for neuropeptide W.

**Synonyms:**

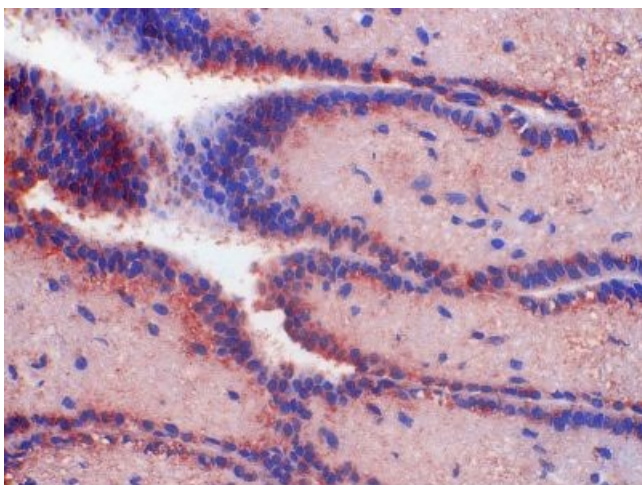
NPBWR1, G-protein coupled receptor 7

**Product images:**

Immunohistochemistry on paraffin sections:  
Human hippocampus stained with AM26729PU-N.



Immunohistochemistry on paraffin sections:  
Human cerebellum stained with AM26729PU-N.



Immunohistochemistry on paraffin sections:  
Human hypothalamus stained with AM26729PU-N.