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**Monoclonal Antibody To Human NPBWR<sub>1</sub>**  
**G-Protein Coupled Receptor 7 (GPR7); Neuropeptides B/W Receptor type 1**  
**UniProt: P48145**

Neuropeptides B/W receptor type 1 (NPBWR<sub>1</sub>) 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.

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**Product number: T-1231**

**Clone: 1F9**

**Lot: 01PO1225**

**TECHNICAL AND ANALYTICAL CHARACTERISTICS:**

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| <b>Host species; subclass:</b>        | Mouse IgG2a, kappa light chain   |
| <b>Quantity:</b>                      | 200µg  |
| <b>Purification / Physical State:</b> | Protein G purified, lyophilized  |
| <b>Format:</b>                        | Affinity purified from serum-free cell culture supernatant, lyophilized<br>Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.1% Kathon as a preservative. |
| <b>Storage and stability:</b>         | Original vial with lyophilized antibody is stable for 1 year from date of despatch. Aliquots of stock solution can be kept frozen at -20°C for two years from date of reconstitution; do not freeze working dilutions.   |
| <b>Approximate working dilution:</b>  | optimal dilution should be tested by serial dilution.  |
| Immune Histochemistry:                | 5µg/ml (1:80)  |
| Fixation:                             | Formalin / Paraffin (predigestion with proteinase K required, see protocol under <a href="http://www.bma.ch">www.bma.ch</a> )  |
| <b>Suggested positive control:</b>    | human hippocampus  |
| <b>Immunogen:</b>                     | DNA vaccine.   |
| <b>Antigen, epitope:</b>              | The specificity of the antibody was verified by flow cytometry with cells expressing the recombinant protein. The epitope has not been further characterized. For an illustration of the expression pattern please go to <a href="http://www.bma.ch">www.bma.ch</a> .                            |

This product contains Kathon as a preservative and is for research only. Purchase price does not include authorization to reverse engineer any part thereof, nor to use it in diagnostic or therapeutic applications.