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# Product datasheet for AP01189PU-M

## 5HT4 Receptor (HTR4) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IF, WB |
| **Recommended Dilution:** | **Western Blot:** 1/500 - 1/1000.<br>**Immunofluorescence**: 1/50 - 1/200. |
| **Reactivity:** | Human, Rat |
| **Host:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Synthetic peptide, corresponding to amino acids 146-198 of Human SR-4. |
| **Specificity:** | This antibody detects endogenous levels of Serotonin Receptor 4 (SR-4) protein. (region surrounding asn180) |
| **Formulation:** | Phosphate buffered saline (PBS), pH~7.2<br>State: Aff - Purified<br>State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).<br>Preservative: 0.05% Sodium Azide |
| **Concentration:** | 1.0 mg/ml |
| **Purification:** | Affinity Chromatography using epitope-specific immunogen. |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: One year from despatch. |
| **Predicted Protein Size:** | ~ 43 kDa |
| **Gene Name:** | 5-hydroxytryptamine receptor 4 |
| **Database Link:** | Entrez Gene 3360 Human<br>Q13639 |

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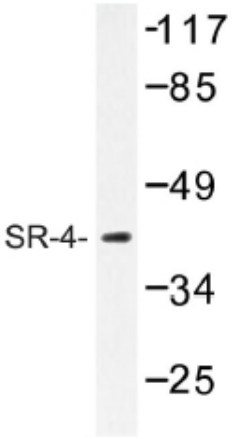
**Background:** Serotonin (also designated 5-hydroxytryptamine or 5-HT) is a molecule that functions as a neurotransmitter, a hormone and a mitogen, and it is predominantly expressed in the gut, platelets and central nervous system (CNS). In the CNS, serotonin modulates several processes, including anxiety, sleep, appetite, behavior and drug abuse. In platelets and gut, serotonin plays a major role in cardiovascular function and motility of the gastrointestinal tract, respectively. Serotonin mediates its effects through several of G protein coupled receptors, designated 5-HT receptors or alternatively SR receptors. SR-3 is a ligand-gated ion channel, whereas all other known serotonin receptor subtypes are G protein-coupled receptors. The gene which encodes SR-3 maps to human chromosome 11q23.1-q23.2. SR-4 mediates widespread effects in central and peripheral nervous systems. The gene which encodes SR-4 maps to human chromosome 5q31-q33. SR-7 belongs to the superfamily of G protein-coupled receptors. The gene which encodes SR-7 maps to human chromosome 10q21-q24.

**Synonyms:** 5-hydroxytryptamine receptor 4, 5-HT4, 5-HT-4

## Product images:




Western blot (WB) analysis of SR-4 antibody in extracts from NIH-3T3 cells.