

## Product datasheet for **TA328995**

### P2rx5 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3,000; FC: 1:50-1:600
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)RENAIVNVKQSQILHPVKT, corresponding to amino acid residues 437-455 of?Å rat P2X5 Receptor. Intracellular, C-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	purinergic receptor P2X 5
Database Link:	<a href="#">NP_542958</a> <a href="#">Entrez Gene 5026 Human</a> <a href="#">Entrez Gene 113995 Rat</a> <a href="#">P51578</a>



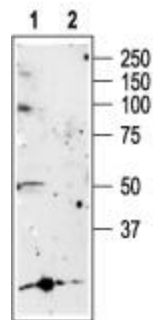
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**Background:**

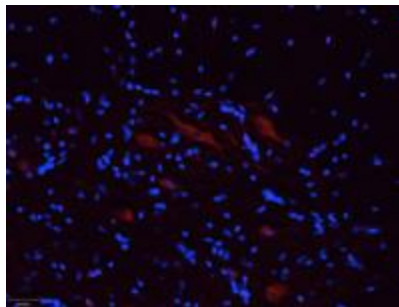
The P2X5 receptor (P2X5R) belongs to the ligand-gated ion channel P2X family, which is activated by extracellular ATP. To date, seven receptor subtypes named P2X1-P2X7 have been described. All P2X subunits, with the exception of P2X6, can assemble to form homomeric or heteromeric functional channels. The P2X5R forms a heteromeric receptor with P2X1 receptor. The heteromeric receptor has distinct properties from the P2X1 or P2X5 homomeric receptors. The different P2X receptors show distinct expression patterns. P2X1-6 have been found in the central and peripheral nervous system, while the P2X7 receptor is found in cells of the immune system, particularly antigen presenting cells, and in microglia. The P2X5 subunit was first cloned from rat heart, and was reported to be expressed in heart, brain, spinal cord and adrenal gland. Recent papers suggested possible roles for P2X5 receptor in differentiation and apoptosis in keratinocytes and ageing rat prostate, respectively. We are pleased to offer a new antibody to our growing line of ligand-gated ion channel P2X antibodies, Anti-P2X5 Receptor antibody.

**Synonyms:**

LRH-1; MGC47755; P2X5; P2X5R

**Product images:**

Western blot analysis of rat brain membranes: 1. Anti-P2X5 Receptor antibody, (1:200). 2. Anti-P2X5 Receptor antibody, preincubated with the control peptide antigen.



Expression of P2X5 Receptor in rat spinal cord. Immunohistochemical staining of rat spinal cord frozen section using Anti-P2X5 Receptor antibody, (1:100). P2X5 Receptor staining (red) is specific for neurons in the anterior horn of the spinal cord. Hoechst 33342 is used as the counterstain.