

## Product datasheet for **TA328999**

### P2ry2 Rabbit Polyclonal Antibody

#### Product data:

|                        |                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:          | Primary Antibodies                                                                                                                                                                                                                                    |
| Applications:          | IF, WB                                                                                                                                                                                                                                                |
| Recommended Dilution:  | WB: 1:200-1:2000; IHC: 1:100-1:3,000; FC: 1:50-1:600                                                                                                                                                                                                  |
| Reactivity:            | Human, Mouse, Rat                                                                                                                                                                                                                                     |
| Host:                  | Rabbit                                                                                                                                                                                                                                                |
| Clonality:             | Polyclonal                                                                                                                                                                                                                                            |
| Immunogen:             | Peptide (C)KPAY GTTGL PRAKR KSVR, corresponding to residues 227-244 of rat P2Y2.3rd intracellular loop (i3) between TM5 and TM6 domains.                                                                                                              |
| 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 P2Y2                                                                                                                                                                                                                              |
| Database Link:         | <a href="#">NP_058951</a><br><a href="#">Entrez Gene 5029 Human</a> <a href="#">Entrez Gene 18442 Mouse</a> <a href="#">Entrez Gene 29597 Rat</a><br><a href="#">P41232</a>                                                                           |



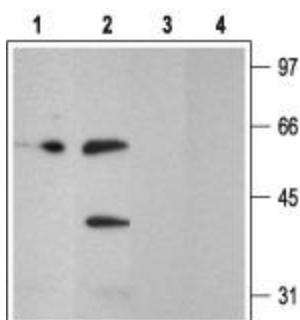
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**Background:**

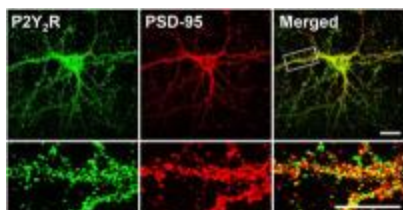
The P2Y receptors belong to the G-protein coupled receptors superfamily. P2Y receptors mediate the actions of the extracellular nucleotides (ATP, ADP, UTP and UDP) and regulate several physiological responses, among them, cardiac function, platelet aggregation and SMC proliferation. The mammalian P2Y family currently includes eight functional receptors; P2Y1, P2Y2, P2Y4, P2Y6, P2Y11, P2Y12, P2Y13, and the UDP-glucose receptor, now renamed P2Y14. P2Y2 receptor is abundantly expressed in the apical membranes of several epithelial tissues including airway. P2Y2 receptor has become a leading candidate for the treatment of cystic fibrosis. Activation of P2Y2 receptor increases Cl<sup>-</sup> efflux and mucociliary clearance, effects that might relieve symptoms of cystic fibrosis. P2Y2 agonist therapy is tested in an attempt to bypass the dysfunctioning CFTR channel. Several P2Y2 receptor agonists, especially INS37217, being evaluated as possible targets for the treatment of cystic fibrosis.

**Synonyms:**

HP2U; MGC20088; MGC40010; P2RU1; P2U; P2U1; P2UR; P2Y2; P2Y2R

**Product images:**


Western blot analysis of rat brain (1, 3) and lung (2, 4) membranes: 1, 2. Anti-P2Y2 Receptor antibody, (1:200). 3, 4. Anti-P2Y2 Receptor antibody, preincubated with the control peptide antigen.



Expression of P2Y2 in rat cortical neurons. Immunocytochemical staining of rat cortical neurons. Staining using Anti-P2Y2 Receptor antibody. P2Y2 (green) is detected in synapses and partially colocalizes with the postsynaptic marker PSD-95. Adapted from Choi, R.C. et al. (2013) with permission of the American Society for Pharmacology & Experimental Therapeutics.