

## Product datasheet for **TA328996**

### P2ry4 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, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)HEES ISRWA DTHQD, corresponding to residues 337-350 of rat P2Y4 . 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, 5% sucrose, 0.025% 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:	pyrimidinergic receptor P2Y4
Database Link:	<a href="#">NP_113868</a> <a href="#">Entrez Gene 5030 Human</a> <a href="#">Entrez Gene 57385 Mouse</a> <a href="#">Entrez Gene 63843 Rat</a> <a href="#">O35811</a>



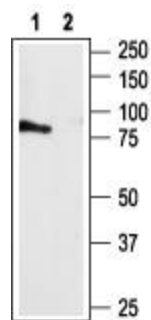
[View online »](#)

**Background:**

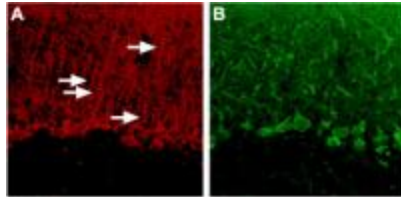
The P2Y receptors belong to the G-protein coupled receptors superfamily. P2Y receptors mediate the actions of the extracellular nucleotides (ATP, ADP, UTP and UDP) and regulate several physiologic responses, among them, cardiac function, platelet aggregation and SMC proliferation. The mammalian P2Y family currently includes eight functional receptors; P2Y1, P2Y2, P2Y4, P2Y6, P2Y11, P2Y12, P2Y13, and the UDP-glucose receptor, now renamed P2Y14. The P2Y4-receptor is highly expressed in the placenta and with lower levels at lung and vascular smooth muscle. The human P2Y4 receptor is highly selective to UTP while rat P2Y4 receptor is equally activated by both UTP and ATP and also by other triphosphate nucleotides such as Ap4A. Recently it has been shown that P2Y4 receptor is involved in differentiation and cell death of human neuroblastoma SH-SY5Y cells.

**Synonyms:**

NRU; P2P; P2Y4; UNR

**Product images:**

Western blot analysis of rat brain membranes: 1. Anti-P2Y4 Receptor antibody, (1:300). 2. Anti-P2Y4 Receptor antibody, preincubated with the control peptide antigen.



Expression of P2Y4 receptor in rat cerebellum. Immunohistochemical staining of rat cerebellum using Anti-P2Y4 Receptor antibody. A. P2Y4 receptor (red) appears in astrocytic processes (arrows). B. In contrast, P2Y4 receptor does not appear in Purkinje neuronal dendrites stained for calbindin D28k (green) in the same brain section. This demonstrates the restriction of P2Y4 receptor to astrocytic fibers.