

## Product datasheet for **TA328648**

### **P2Y12 (P2RY12) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB: 1:200-1:2000; IHC: 1:100-1:3,000; FC: 1:50-1:600
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Peptide (C)KTTRPFKTSNPKNLLGAK, corresponding to amino acid residues 125-142 of human P2Y12 receptor. Intracellular, 2nd Cytoplasmic loop.
<b>Formulation:</b>	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> .
<b>Reconstitution Method:</b>	Add 50 ul double distilled water (DDW) to the lyophilized powder.
<b>Purification:</b>	Affinity purified on immobilized antigen.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	purinergic receptor P2Y12
<b>Database Link:</b>	<a href="#">NP_073625</a> <a href="#">Entrez Gene 64803 Rat</a> <a href="#">Entrez Gene 70839 Mouse</a> <a href="#">Entrez Gene 64805 Human</a> <a href="#">Q9H244</a>

**Background:** The P2Y receptors belong to the G-protein coupled receptors superfamily. They mediate the actions of the extracellular nucleotides (ATP, ADP, UTP AND UDP. Eight functional mammalian P2Y receptors have been described: P2Y1, P2Y2, P2Y4, P2Y6, P2Y11, P2Y12, P2Y13, and the UDP-glucose receptor, now renamed P2Y14. The P2Y12 receptor is co-expressed with P2Y1 receptor on platelets leading to shape change, aggregation, and rise in intracellular Ca<sup>2+</sup> upon activation. The only other expression of P2Y12 was found in brain, according to results of reverse transcription-polymerase chain reaction and northern blotting. The P2Y12 receptor has become a target for potential therapeutic drugs for the treatment of thromboembolism and other clotting disorders.

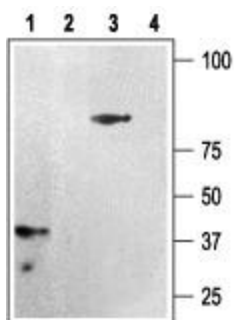


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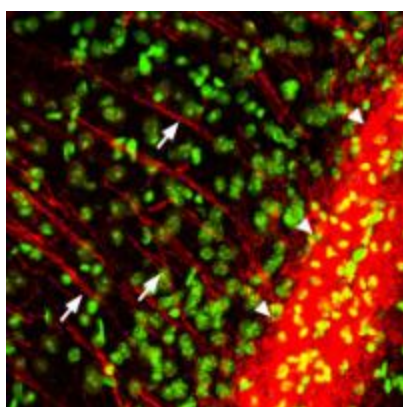
**Synonyms:** ADPG-R; BDPLT8; HORK3; P2T(AC); P2Y(12)R; P2Y(AC); P2Y(ADP); P2Y(cyc); P2Y12; SP1999

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Product images:**



Western blot analysis of rat brain membranes (1, 2) and human platelets (3, 4): 1, 3. Anti-P2Y12 Receptor antibody, (1:200). 2, 4. Anti-P2Y12 Receptor antibody, preincubated with the control peptide antigen.



Expression of P2Y12 in mouse brain. Immunohistochemical staining of P2Y12 (red) in mouse brain using Anti-P2Y12 Receptor antibody. The region shown in this picture is the entorhinal cortex in mouse brain. The P2Y12 positive fibers (arrows) run from the corpus callosum (triangles) into the deep layers of the entorhinal cortex. Sytox green is used as the counterstain.