

## Product datasheet for **TA328651**

### GPR86 (P2RY13) 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 DRFLKIIRPLRNIFLK(C), corresponding to amino acid residues 119-134 of human P2Y13. 2nd Intracellular loop.
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 P2Y13
Database Link:	<a href="#">NP_076403</a> <a href="#">Entrez Gene 74191 Mouse</a> <a href="#">Entrez Gene 310444 Rat</a> <a href="#">Entrez Gene 53829 Human</a> <a href="#">Q9BPV8</a>



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**Background:**

The P2Y family belongs to the G-protein coupled receptors superfamily. They are activated by extracellular nucleotides and modulate variety of physiological functions. A new member of this family was recently identified, the P2Y13 receptor. The P2Y13 receptor has significant similarity to the P2Y12 receptor (about 45% sequence identity) and together they form a distinct group structurally differ from other members of this family. P2Y13 receptor, like the P2Y12 receptor, is a high affinity receptor for the ADP nucleotide, coupled to the Gai class of G-proteins. The P2Y13 receptor is highly expressed at brain and spleen tissues as well as in the immune system. Lower expression was demonstrated in the testis, lung liver and other peripheral organs. Recently it has been shown that ADP activates a negative feedback pathway for ATP release from human red blood cells via the P2Y13 receptor. P2Y13 receptor was also implicated in inhibition of N-type Ca<sup>2+</sup> channels in neurons, exerting pre and/or post-synaptic modulatory action.

**Synonyms:**

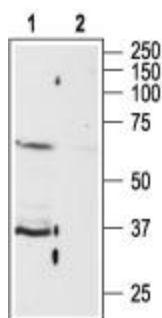
13; FKSG77; G-protein coupled; G-protein coupled receptor 94; GPCR1; GPR86; GPR94; G protein-coupled receptor 86; P2Y13; P2Y purinoceptor 13; purinergic receptor P2Y; SP174

**Protein Families:**

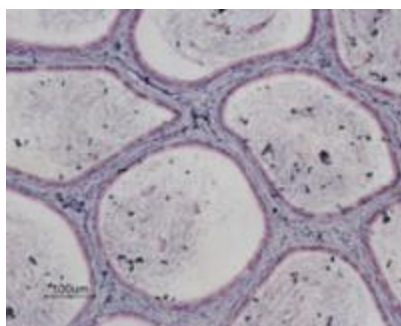
Druggable Genome, GPCR, Transmembrane

**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**


Western blot analysis of rat brain membranes: 1. Anti-P2Y13 Receptor antibody (APR-017), (1:200). 2. Anti-P2Y13 Receptor antibody, preincubated with the control peptide antigen.



Expression of P2Y13 in rat testis. Immunohistochemical staining of paraffin embedded rat epididymus section using Anti-P2Y13 Receptor antibody, (1:50). Strong and high specific staining of the epithelial cells is shown. Universal Immuno-alkaline-phosphatase kit followed by New Fuchsin Substrate was used for color reaction (red). Hematoxylin is used as the counterstain.