

## Product datasheet for **TA329005**

### P2rx3 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)KGFGRYANRVM DVSD, corresponding to amino acid residues 65-79 of rat P2X3 Receptor. Extracellular.
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 3
Database Link:	<a href="#">NP_112337</a> <a href="#">Entrez Gene 228139 Mouse</a> <a href="#">Entrez Gene 81739 Rat</a> <a href="#">P49654</a>



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**Background:**

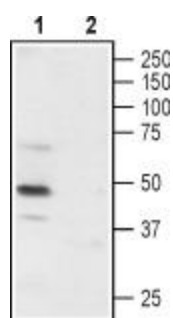
The P2X3 receptor belongs to the ligand-gated ion channel P2X family, that consists of seven receptor subtypes named P2X1-P2X7 and is activated by extracellular ATP. All P2X subunits, with the exception of P2X6, can assemble to form homomeric or heteromeric functional channels. The different P2X receptors show distinct expression patterns. P2X1-6 has been found in the central and peripheral nervous system, while the P2X7 receptor is predominantly found in cells of the immune system. The P2X3 receptor is highly expressed on nociceptive sensory neurons in dorsal root ganglia (DRG) as a homomer or as a heteromer (P2X3/P2X2). ATP released from damaged cells activates the P2X3 receptor to initiate nociceptive signals. Involvement of ATP in the mechanism of chronic pain has been also suggested. P2X3 receptor is now becoming a possible target for the development of pain therapeutics.

**Synonyms:**

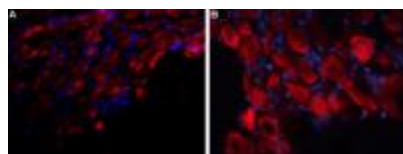
MGC129956; P2X3

**Note:**

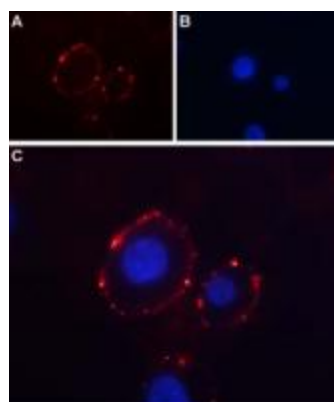
This antibody was tested in live cell imaging. Please see IF/ICC data for detail.

**Product images:**


Western blot analysis of rat DRG: 1. Anti-P2X3 Receptor (extracellular) antibody, (1:200). 2. Anti-P2X3 Receptor (extracellular) antibody, preincubated with the control peptide antigen.



Expression of P2X3 Receptor in rat DRG. Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-P2X3 Receptor (extracellular) antibody, followed by anti-rabbit-AlexaFluor-594 secondary antibody. P2X3 Receptor staining (red) appears in neuronal cell bodies. DAPI was used as the counter stain (blue). A. X20 magnification. B. X40 magnification.



Expression of P2X3 Receptor in rat PC12 cells. Immunocytochemical staining of intact living rat pheochromocytoma (PC12) cells. A. Extracellular staining with Anti-P2X3 Receptor (extracellular) antibody, (1:50, red) followed by goat anti-rabbit-AlexaFluor-594 secondary antibody. B. DAPI was used as the counter stain (blue). C. Merge images of A and B.