

## Product datasheet for **TA349115**

### **P2X7 (P2RX7) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, WB
<b>Recommended Dilution:</b>	WB: 1 - 2 ug/mL, IHC: 5 ug/mL, IF: 20 ug/mL
<b>Reactivity:</b>	Human, Mouse
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	P2RX7 antibody was raised against a 17 amino acid peptide near the carboxy terminus of human P2RX7.
<b>Formulation:</b>	PBS containing 0.02% sodium azide.
<b>Concentration:</b>	1 mg/ml
<b>Purification:</b>	P2RX7 antibody is affinity chromatography purified via peptide column.
<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>Predicted Protein Size:</b>	Predicted: 34, 47, 65 kDa; Observed: 54 kDa
<b>Gene Name:</b>	purinergic receptor P2X 7
<b>Database Link:</b>	<a href="#">NP_002553</a> <a href="#">Entrez Gene 18439 Mouse</a> <a href="#">Entrez Gene 5027 Human</a> <a href="#">Q99572</a>
<b>Background:</b>	The purinergic receptor P2X ligand-gated ion channel 7 (P2RX7) belongs to the family of purinoceptors for ATP (1). This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules (1,2). Activation of this nuclear receptor by ATP in the cytoplasm may be a mechanism by which cellular activity can be coupled to changes in gene expression (2). Recent studies have suggested that P2RX7 may play a key role in immune-mediated diseases such as rheumatoid arthritis (3) as well as neuropsychiatric disorders (4).
<b>Synonyms:</b>	P2X7

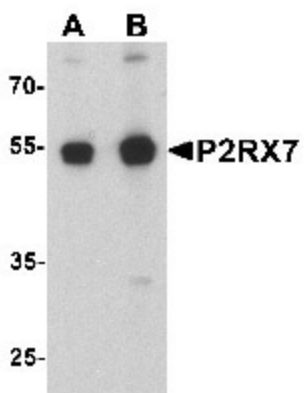


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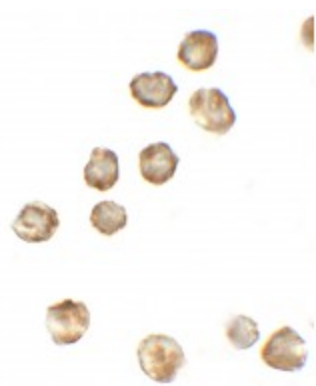
**Protein Families:** Druggable Genome, Ion Channels: ATP Receptors, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction

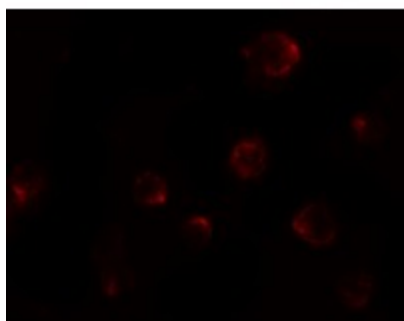
**Product images:**



Western blot analysis of P2RX7 in 3T3 cell lysate with P2RX7 antibody at (A) 1 and (B) 2 ug/mL.



Immunocytochemistry of P2RX7 in 3T3 cells with P2RX7 antibody at 5 ug/mL.



Immunofluorescence of P2RX7 in 3T3 cells with P2RX7 antibody at 20 ug/mL.