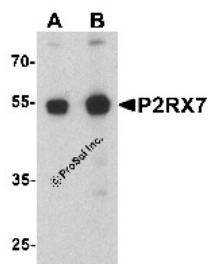


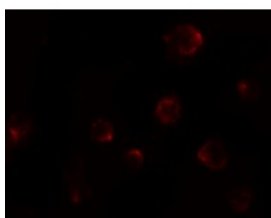


P2RX7 Antibody

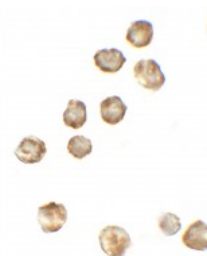
CATALOG NUMBER: 8015



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



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



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

Specifications

| | |
|------------------------------------|--|
| SPECIES REACTIVITY: | Human, Mouse |
| HOMOLOGY: | Predicted species reactivity based on immunogen sequence: Rat: (81%) |
| TESTED APPLICATIONS: | ELISA, ICC, IF, WB |
| APPLICATIONS: | P2RX7 antibody can be used for detection of P2RX7 by Western blot at 1 - 2 ug/ml. Antibody can also be used for immunocytochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. |
| USER NOTE: | Optimal dilutions for each application to be determined by the researcher. |
| POSITIVE CONTROL: | 1) Cat. No. 1212 - 3T3 Cell Lysate |
| PREDICTED MOLECULAR WEIGHT: | Predicted: 34, 47, 65 kDa Observed: 54 kDa |
| SPECIFICITY: | P2RX7 antibody is human, mouse, and rat reactive. Multiple isoforms of P2RX7 are known to exist. |
| IMMUNOGEN: | P2RX7 antibody was raised against a 17 amino acid peptide near the carboxy terminus of human P2RX7. The immunogen is located within the last 50 amino acids of P2RX7. |
| HOST SPECIES: | Rabbit |

Properties

| | |
|----------------------------|--|
| PURIFICATION: | P2RX7 antibody is affinity chromatography purified via peptide column. |
| PHYSICAL STATE: | Liquid |
| BUFFER: | P2RX7 antibody is supplied in PBS containing 0.02% sodium azide. |
| CONCENTRATION: | 1 mg/mL |
| STORAGE CONDITIONS: | P2RX7 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. |
| CLONALITY: | Polyclonal |
| ISOTYPE: | IgG |
| CONJUGATE: | Unconjugated |

Additional Info

| | |
|------------------|--|
| ALTERNATE NAMES: | P2X purinoceptor 7, P2X7, purinergic receptor P2X ligand-gated ion channel 7 |
| ACCESSION NO.: | NP_002553 |
| PROTEIN GI NO.: | 300068987 |
| OFFICIAL SYMBOL: | P2RX7 |
| GENE ID: | 5027 |

Background

BACKGROUND: 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).

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- 1) Surprenant A, Rassendren F, Kawashima E, et al. The cytosolic P2Z receptor for extracellular ATP identified as a P2X receptor (P2X7). *Science* 1996; 272:735-8.
- 2) North RA. Molecular physiology of P2X receptors. *Physiol. Rev.* 2002; 82:1013-67.
- 3) Labasi JM, Petrushova N, Donovan C, et al. Absence of the P2X7 receptor alters leukocyte function and attenuates an inflammatory response. *J. Immunol.* 168:6436-45.
- 4) Basso AM, Bratcher NA, Harris RR, et al. Behavioral profile of P2X7 receptor knockout mice in animal models of depression and anxiety; relevance for neuropsychiatric disorders. *Behav. Brain Res.* 2009; 198:83-90.

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December 14, 2016