

## ARG43366 anti-P2RX7 / P2X7 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes P2RX7 / P2X7                        |
| Tested Reactivity   | Ms  |
| Tested Application  | WB  |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | P2RX7 / P2X7  |
| Species             | Mouse   |
| Immunogen           | Recombinant protein corresponding to N380-E585 of Mouse P2RX7 / P2X7.     |
| Conjugation         | Un-conjugated   |
| Alternate Names     | ATP receptor; P2X7; P2X purinoceptor 7; P2Z receptor; Purinergic receptor |

### Application Instructions

|                   |  |                |
|-------------------|--|----------------|
| Application table | Application  | Dilution       |
|                   | WB   | 1:500 - 1:2000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | Neuro-2a   |                |
| Observed Size     | ~ 70 kDa   |                |

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Affinity purification with immunogen.  |
| Buffer              | 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.01% Sodium azide and 4% Trehalose.  |
| Preservative        | 0.01% Sodium azide   |
| Stabilizer          | 4% Trehalose   |
| Concentration       | 0.5 mg/ml  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

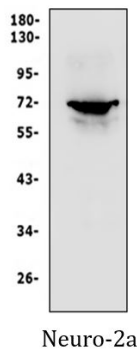
## Bioinformation

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|                       |   |
|-----------------------|---|
| Gene Symbol           | P2RX7   |
| Gene Full Name        | purinergic receptor P2X, ligand gated ion channel, 7  |
| Background            | The product of this gene belongs to the family of purinoceptors for ATP. 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. 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. Multiple alternatively spliced variants have been identified, most of which fit nonsense-mediated decay (NMD) criteria. [provided by RefSeq, Jul 2010] |
| Function              | Receptor for ATP that acts as a ligand-gated ion channel. Responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Could function in both fast synaptic transmission and the ATP-mediated lysis of antigen-presenting cells. In the absence of its natural ligand, ATP, functions as a scavenger receptor in the recognition and engulfment of apoptotic cells (PubMed:21821797, PubMed:23303206). [UniProt]  |
| Calculated Mw         | 68 kDa  |
| PTM                   | Phosphorylation results in its inactivation.<br><br>ADP-ribosylation at Arg-125 is necessary and sufficient to activate P2RX7 and gate the channel.<br><br>Palmitoylation of several cysteines in the C-terminal cytoplasmic tail is required for efficient localization to cell surface. [UniProt]   |
| Cellular Localization | Cell membrane; Multi-pass membrane protein. [UniProt]   |

## Images

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ARG43366 anti-P2RX7 / P2X7 antibody WB image

Western blot: 30 µg of sample under reducing conditions. Neuro-2a whole cell lysate stained with ARG43366 anti-P2RX7 / P2X7 antibody at 0.5 µg/ml dilution, overnight at 4°C.