

**ARG43357**  
**anti-P2RX7 / P2X7 antibody**Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes P2RX7 / P2X7
Tested Reactivity	Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	P2RX7 / P2X7
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 47-334 of Human P2RX7 / P2X7 (NP_002553.3).
Conjugation	Un-conjugated
Alternate Names	ATP receptor; P2X7; P2X purinoceptor 7; P2Z receptor; Purinergic receptor

### Application Instructions

Application table	Application	Dilution
	WB	1:1000 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	LO2	
Observed Size	70 kDa	

### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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. 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.

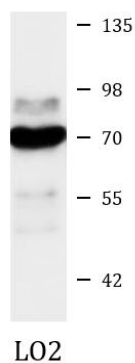
## Bioinformation

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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	69 kDa
PTM	Phosphorylation results in its inactivation.  ADP-ribosylation at Arg-125 is necessary and sufficient to activate P2RX7 and gate the channel.  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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ARG43357 anti-P2RX7 / P2X7 antibody WB image

Western blot: 25 µg of LO2 cell lysate stained with ARG43357 anti-P2RX7 / P2X7 antibody at 1:1000 dilution.