

ARG22576 anti-P2RX7 / P2X7 Receptor antibody [Hano43]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rat Monoclonal antibody [Hano43] recognizes P2RX7 / P2X7 Receptor
Tested Reactivity	Ms
Tested Application	FACS, ICC/IF
Host	Rat
Clonality	Monoclonal
Clone	Hano43
Isotype	IgG2b
Target Name	P2RX7 / P2X7 Receptor
Species	Mouse
Immunogen	A P2X7-expression construct and a final boost with P2X7-transfected HEK cells.
Conjugation	Un-conjugated
Alternate Names	ATP receptor; P2X7; P2X purinoceptor 7; P2Z receptor; Purinergic receptor

Application Instructions

Application table	Application	Dilution
	FACS	1:25 - 1:200
	ICC/IF	Assay-dependent
Application Note	FACS: Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Concentration	1 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.

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. [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.