

Product datasheet for TA420148

P2rx7 Rat Monoclonal Antibody [Clone ID: Hano43]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Hano43
Applications:	FC, IF
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	A P2X7-expression construct and a final boost with P2X7-transfected HEK cells.
Specificity:	P2X7
Formulation:	Phosphate buffered saline containing 0.09% Sodium Azide (NaN ₃) Label: ALEXA FLUOR [®] 488,ALEXA FLUOR [®] 647,FITC,Purified,RPE State: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant Purified IgG - liquid
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	+4°C, -20°C if preferred
Stability:	Shelf life: one year from despatch.
Gene Name:	purinergic receptor P2X, ligand-gated ion channel, 7
Database Link:	Q9ZIM0



Background:

Rat anti Mouse P2X7 antibody, clone Hano43 recognizes the P2X purinoceptor 7, also known as P2X7. The P2X7 ATP receptor has a distinctive long C-terminal tail with multiple potential protein and lipid interaction motifs and is highly polymorphic. It is a cation selective ion channel that opens up on binding of extracellular ATP. Sustained activation by extracellular ATP results in the formation of a reversible pore in the plasma membrane that is permeable to hydrophilic solutes of up to 900 Da. Once a pore is opened massive upset of cytoplasmic ion homeostasis occurs and the pore stays open as long as it is bound by ATP. Should ATP stimulation continue the cell will become irreversibly damaged and die. P2X7 plays a key role in the maturation and release of IL-1 and other IL-1 family members during inflammation. As such, P2X7 blockers might be useful as anti-inflammatory agents.

Synonyms:

P2RX7