Product Datasheet

P2X7/P2RX7 Antibody (Hano43) - BSA Free
NBP1-40894-0.1mg

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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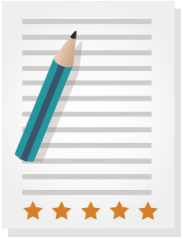
Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-40894

Updated 2/21/2025 v.20.1



NBP1-40894-0.1mg

P2X7/P2RX7 Antibody (Hano43) - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	Hano43
Preservative	0.09% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS

Product Description

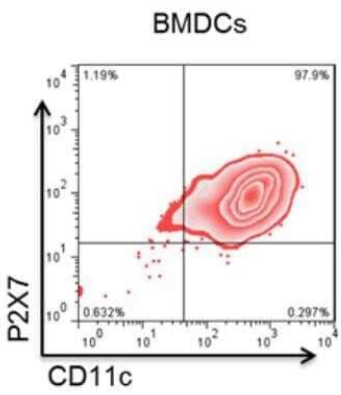
Host	Rat
Gene ID	5027
Gene Symbol	P2RX7
Species	Mouse
Specificity/Sensitivity	This antibody recognises the P2X purinoceptor 7, also known as P2X7. The P2X7 ATP receptor has a distinctive long C-terminal tail with multiple potential protein and lipid interaction motifs and is highly polymorphic. It is 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.
Immunogen	A P2X7-expression construct and a final boost with P2X7-transfected HEK cells

Product Application Details

Applications	Flow Cytometry
Recommended Dilutions	Flow Cytometry 1:25-1:200

Images

Flow Cytometry: P2X7/P2RX7 Antibody (Hano43) [NBP1-40894] - Flow Cytometry: P2X7/P2RX7 Antibody (Hano43) [Alexa Fluor® 647] [NBP1-40894AF647] - Mouse dendritic cells (BMDCs) stained for CD11c and P2X7. Image from verified customer review. Image using the Alexa Fluor 647 form of this antibody.



Publications

Felix, KM;Teng, F;Bates, NA;Ma, H;Jaimez, IA;Sleiman, KC;Tran, NL;Wu, HJ; P2RX7 Deletion in T Cells Promotes Autoimmune Arthritis by Unleashing the Tfh Cell Response Front Immunol 2019-03-19 [PMID: 30949163] (FLOW, Mouse)

Yoshizawa A, Bi K, Keskin DB et al. TCR-pMHC encounter differentially regulates transcriptomes of tissue-resident CD8 T cells Eur. J. Immunol. 2017-09-05 [PMID: 28872670] (Mouse)

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Products Related to NBP1-40894-0.1mg

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
DDXCR03	Rat IgG2b Isotype Control
NBP1-40894AF647	P2X7/P2RX7 Antibody (Hano43) [Alexa Fluor® 647]

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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