

# Product Datasheet

## **P2X7/P2RX7 Antibody (Hano43) [Alexa Fluor® 700] NBP1-40894AF700**

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP1-40894AF700**

P2X7/P2RX7 Antibody (Hano43) [Alexa Fluor® 700]

| <b>Product Information</b>     |   |
|--------------------------------|---|
| <b>Unit Size</b>               | 0.1 ml  |
| <b>Concentration</b>           | Please see the vial label for concentration. If unlisted please contact technical services.   |
| <b>Storage</b>                 | Store at 4C in the dark.  |
| <b>Clonality</b>               | Monoclonal  |
| <b>Clone</b>                   | Hano43  |
| <b>Preservative</b>            | 0.05% Sodium Azide  |
| <b>Isotype</b>                 | IgG2b   |
| <b>Conjugate</b>               | Alexa Fluor 700   |
| <b>Purity</b>                  | Protein G purified  |
| <b>Buffer</b>                  | 50mM Sodium Borate  |
| <b>Product Description</b>     |   |
| <b>Host</b>                    | Rat   |
| <b>Gene ID</b>                 | 5027  |
| <b>Gene Symbol</b>             | P2RX7   |
| <b>Species</b>                 | Mouse   |
| <b>Reactivity Notes</b>        | Reacts with Mouse.  |
| <b>Specificity/Sensitivity</b> | 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. |
| <b>Immunogen</b>               | A P2X7-expression construct and a final boost with P2X7-transfected HEK cells   |



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|--------------|--|
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| <b>Product Application Details</b> |   |
|------------------------------------|---|
| <b>Applications</b>                | Flow Cytometry, Immunocytochemistry/ Immunofluorescence |
| <b>Recommended Dilutions</b>       | Flow Cytometry, Immunocytochemistry/ Immunofluorescence |





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-40894AF700**

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|                   |   |
|-------------------|---|
| IC013N            | Rat IgG2b Isotype Control (141945) [Alexa Fluor® 700] |
| H00005027-P01-2ug | Recombinant Human P2X7/P2RX7 GST (N-Term) Protein     |
| 210-TA-005        | TNF-alpha [Unconjugated]                              |
| NBL1-14033        | P2X7/P2RX7 Overexpression Lysate                      |

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### **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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