

Product Datasheet

P2Y12/P2RY12 Antibody NBP1-78249-0.05mg

Unit Size: 0.05 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP1-78249-0.05mg

P2Y12/P2RY12 Antibody

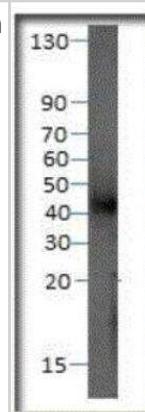
Product Information	
Unit Size	0.05 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris/Glycine buffer, pH 7.4-7.8, HEPES,BSA 0.5%, glycerol 30%.

Product Description	
Description	Novus Biologicals Rabbit P2Y12/P2RY12 Antibody (NBP1-78249) is a polyclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-P2Y12/P2RY12 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	64805
Gene Symbol	P2RY12
Species	Human, Mouse, Rat, Porcine, Monkey, Primate
Reactivity Notes	Chimpanzee (100%). Porcine reactivity reported in (PMID: 31103710). Mouse reactivity reported in scientific literature (PMID:31800167).
Specificity/Sensitivity	This antibody detects a single 56-68kDa P2Y12 diffused band. The antibody does not cross reacts with other P2X or with other P2Y receptors on western blots.
Immunogen	Synthetic peptide taken within amino acid region 300-342 on human P2Y12 protein.

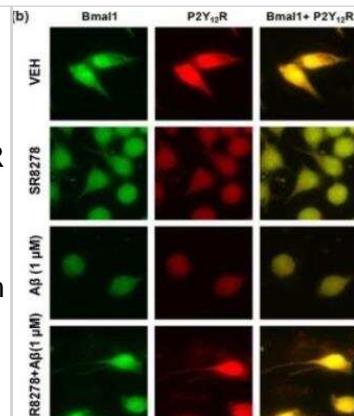
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA 1:10000, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:200, Immunohistochemistry-Paraffin 1:100

Images

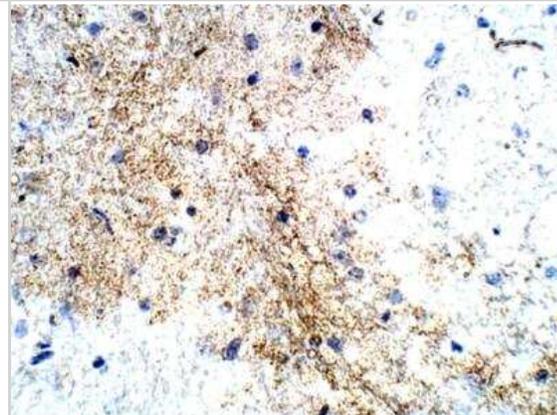
Western Blot: P2Y12/P2RY12 Antibody [NBP1-78249] - Antibody dilution 1:500, MW is 41 kDa



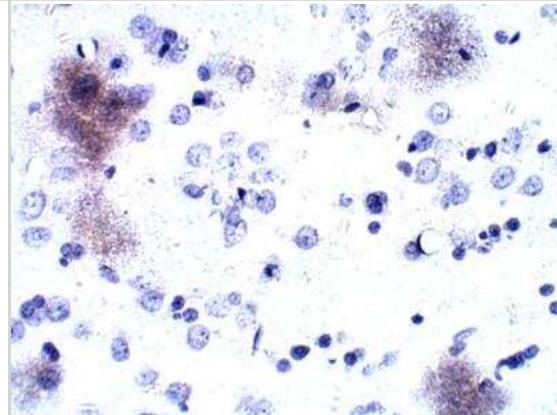
Immunocytochemistry/Immunofluorescence: P2Y12/P2RY12 Antibody [NBP1-78249] - SR8278 induces microglial process extension and expression of P2Y12R and Bmal1. SR8278 (20 μ M) recovered the fluorescence intensity of Bmal1 and P2Y12R and increased microglial process length in either the absence or presence of fAbeta1-42 (P2Y12R in red and Bmal1 in green). The graph shows the average length of the longest microglial processes from the 46 microglia in each group. ***p < .001 compared to the vehicle-treated group and ###p < .001 compared to the fAbeta-treated group. Image collected and cropped by CiteAb from the following publication (<https://onlinelibrary.wiley.com/doi/abs/10.1111/ace.13078>) licensed under a CC-BY license.



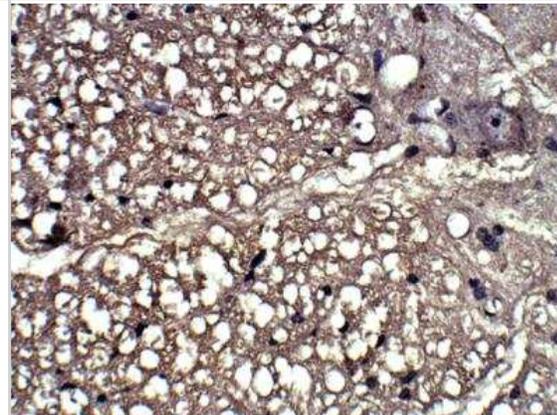
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP1-78249] - Mouse brain, 1:50 dilution in IHC blocking buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain. 40X magnification, FFPE section.



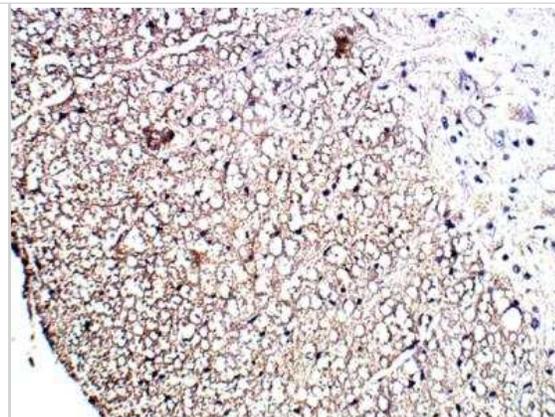
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP1-78249] - Rat brain, 1:100 dilution.



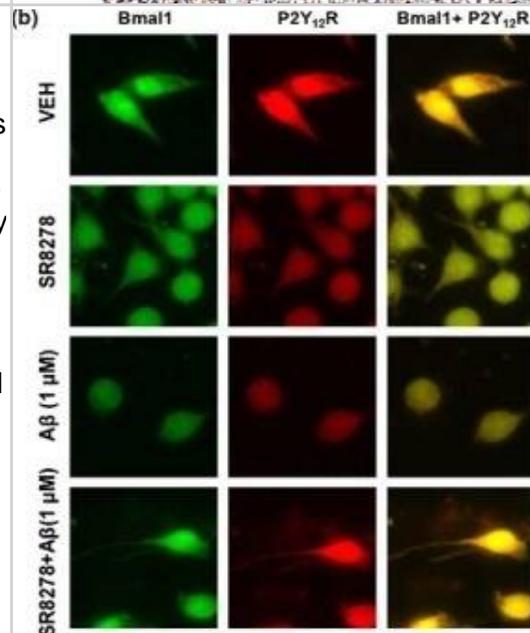
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP1-78249] - Rat spinal cord. Dilution 1:100.



Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP1-78249]
- Rat spinal cord. Dilution 1:100.



SR8278 induces microglial process extension and expression of P2Y12R and Bmal1. (a) In both the presence and absence of $\text{f}\beta\text{1}\square\text{42}$, SR8278 treatment significantly induced P2Y12R and Bmal1, but not P2X7R or Per1, in a dose-dependent manner. Synchronized BV \square 2 cells were pretreated with SR8278 (20 μM) for 24 hr before treatment with $\text{f}\beta\text{1}\square\text{42}$ (1 μM , 2 μM) for 2 hr. Each gene was analyzed using qPCR. * $p < .05$, ** $p < .01$. (b) SR8278 (20 μM) recovered the fluorescence intensity of Bmal1 and P2Y12R and increased microglial process length in either the absence or presence of $\text{f}\beta\text{1}\square\text{42}$ (P2Y12R in red and Bmal1 in green). The graph shows the average length of the longest microglial processes from the 46 microglia in each group. *** $p < .001$ compared to the vehicle-treated group and #### $p < .001$ compared to the $\text{f}\beta\text{1}\square\text{42}$ -treated group. (c) The expression of M1-type Markers (iNOS, Cox \square 2) and M2-type markers (CD206, IL \square 10, YM \square 1) after SR8278 (20 μM) treatment for 24 hr in BV \square 2 cells was determined using qPCR. *** $p < .001$ compared to the vehicle-treated group Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31800167>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Liu L, Gao J, Tang Y et Al. Increased expression of the P2Y(12) receptor is involved in the failure of autogenous arteriovenous fistula caused by stenosis Ren Fail 2023-11-23 [PMID: 38532720]

Yasukata J, Yamada Y, Sagayama H et al. Relationship between Measured Aerobic Capacity and Total Energy Expenditure Obtained by the Doubly Labeled Water Method in Community-Dwelling, Healthy Adults Aged 81–94 Years Geriatrics 2022-04-15 [PMID: 35447851]

Vlasova AN, Amimo JO, Saif LJ. Porcine Rotaviruses: Epidemiology, Immune Responses and Control Strategies Viruses 2017-03-18 [PMID: 28335454]

Liu L, Gao J, Tang Y et al. Increased expression of the P2Y12 receptor is involved in the failure of autogenous arteriovenous fistula caused by stenosis Renal Failure 2023-12-22

Lee J, Kim DE, Griffin P, et al. Inhibition of REV-ERBs stimulates microglial amyloid-beta clearance and reduces amyloid plaque deposition in the 5XFAD mouse model of Alzheimer's disease Aging Cell 2019-12-04 [PMID: 31800167] (ICC/IF, Mouse)

Lim RR, Hainsworth DP, Mohan RR, Chaurasia SS Characterization of a functionally active primary microglial cell culture from the pig retina Exp Eye Res 2019-05-20 [PMID: 31103710] (ICC/IF, Porcine)

Abbracchio, M, G Burnstock. Purinoceptors: are there families of P2X and P2Y purinoceptors?. Pharmacol. Ther. 64:445-475. 1994-01-01 [PMID: 7724657]



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Products Related to NBP1-78249-0.05mg

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

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