

Product Datasheet

P2Y12/P2RY12 Antibody - BSA Free NBP2-33870

Unit Size: 0.1 ml

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

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NBP2-33870

P2Y12/P2RY12 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

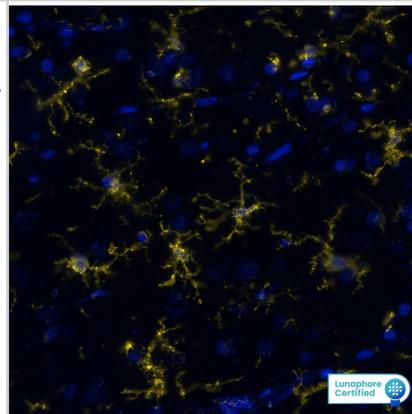
Product Description	
Description	Novus Biologicals Rabbit P2Y12/P2RY12 Antibody - BSA Free (NBP2-33870) is a polyclonal antibody validated for use in Multiplex Immunofluorescence, IHC, WB, ICC/IF and Simple Western. Anti-P2Y12/P2RY12 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	64805
Gene Symbol	P2RY12
Species	Human, Canine, Feline
Reactivity Notes	Feline, Canine reactivity reported from verified customer reviews.
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: KSFRLISMLKCPNSATSLSQDNRKKEQDGGDPNEETPM

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Multiplex Immunofluorescence
Recommended Dilutions	Western Blot reported in scientific literature (PMID:31968618)., Simple Western 1:250, Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence validated from a verified customer review, Immunohistochemistry-Paraffin 1:1000 - 1:2500, Immunohistochemistry-Frozen Validated from a verified customer review, Multiplex Immunofluorescence 1:100
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

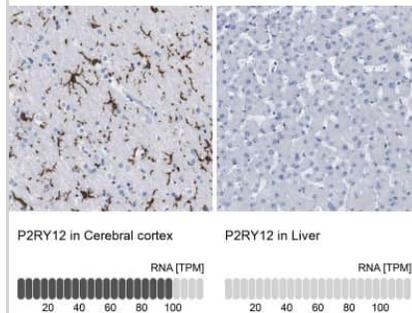


Images

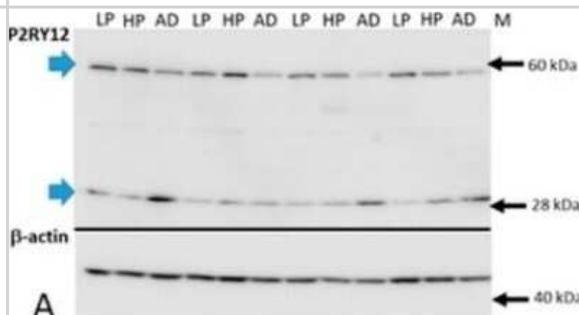
P2Y12/P2RY12 was detected in immersion fixed paraffin-embedded sections of human Cortex using Rabbit Anti-human P2Y12/P2RY12, Polyclonal Antibody (Catalog # NBP2-33870) at 1:100 at 37°Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR555RB](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to cell membrane of microglia. Protocol available in [COMET™ Panel Builder](#).



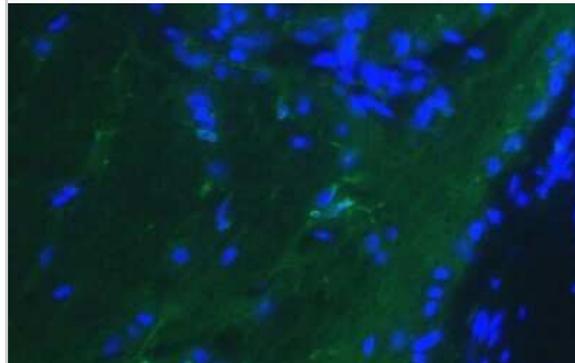
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP2-33870] - Staining in human cerebral cortex and liver tissues . Corresponding P2RY12 RNA-seq data are presented for the same tissues.



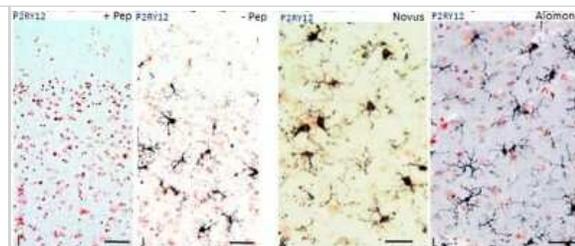
P2Y12-P2RY12-Antibody-Western-Blot-NBP2-33870-img0018.jpg



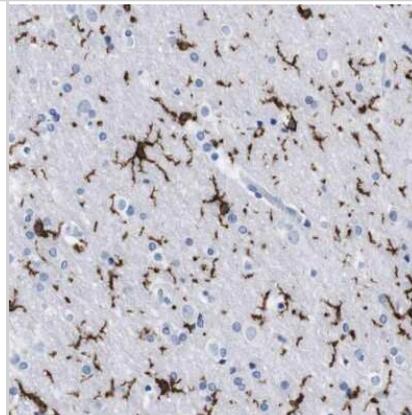
Immunocytochemistry/Immunofluorescence: P2Y12/P2RY12 Antibody [NBP2-33870] - Green-P2Y12/P2RY12, Blue-DAPI. 1:200 dilution for fixed tissue sections of feline optical nerve. ICC/IF image submitted by a verified customer review.



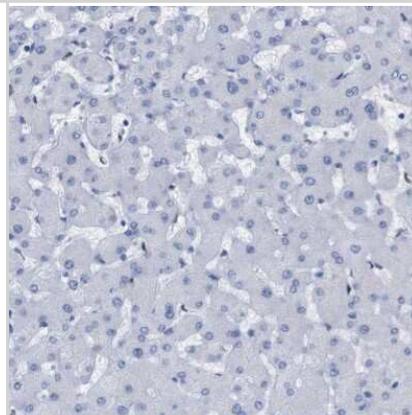
P2Y12-P2RY12-Antibody-Immunohistochemistry-NBP2-33870-
img0019.jpg



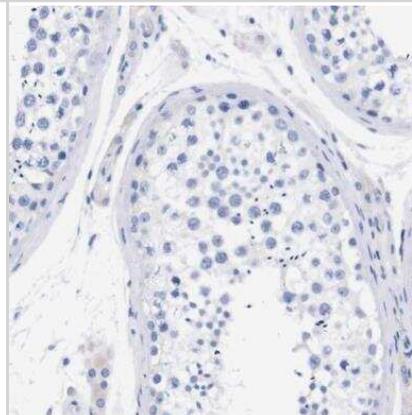
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP2-33870]
- Staining of human cerebral cortex shows strong cytoplasmic positivity
in microglia.



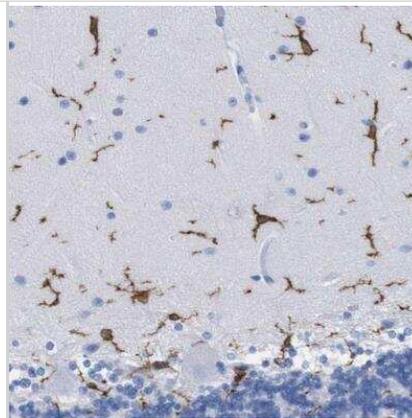
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP2-33870]
- Staining of human liver shows no positivity as expected.



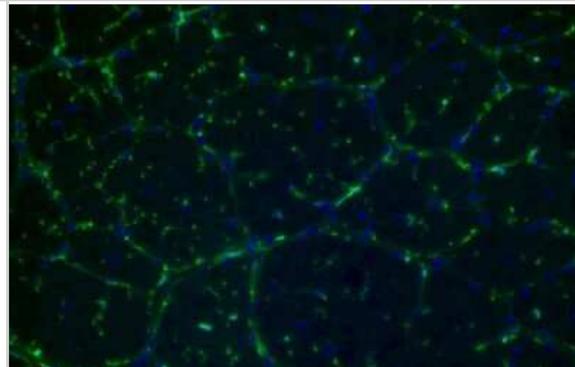
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP2-33870]
- Staining of human testis shows no positivity in cells in seminiferous
ducts as expected.



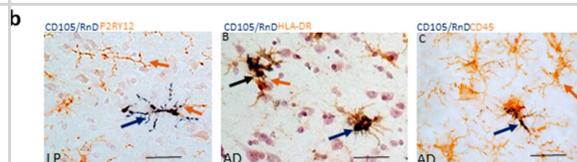
Immunohistochemistry-Paraffin: P2Y12/P2RY12 Antibody [NBP2-33870]
- Staining of human cerebellum shows strong cytoplasmic positivity in microglia.



Immunohistochemistry-Frozen: P2Y12/P2RY12 Antibody [NBP2-33870]
- Canine optic nerve. Immunofluorescent signal was detected using Alexa Fluor 488 conjugated secondary antibody (green). IHC-Fr image submitted by a verified customer review.



Immunohistochemistry: P2Y12/P2RY12 Antibody [NBP2-33870] -
Images demonstrating colocalization of CD105/MAB1097 with microglial markers (a) panels A, B Low magnification images of high-plaque (HP) case (panel A) & AD case (panel B) showing staining with CD105/MAB1097 (purple arrows) & IBA-1 (brown arrows) in MTG sections. Both images at same magnification: scale bars represent 100 μ m. (b) (panel A) CD105 microglia (purple arrows) with ramified morphology stained with antibody to P2RY12 (brown arrow) in low-plaque (LP) case. (panel B) CD105 microglia (purple arrows) & HLA-DR (brown arrow) in AD case. (panel C) CD105 microglia (purple arrow) & CD45 (brown arrow) in AD case. All sections were from MTG. Images at same magnification: scale bars represent 50 μ m. (c) (panel A-E). Patterns of staining of CD105 (purple) & IBA-1 (brown) in MTG sections of cases with progressively increasing pathology from LP to AD. (panel F). CD105-positive microglia in hippocampus (HPC) of AD case. Images at same magnification: scale bars represent 50 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31340569>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Pereyra G, Mateo M, Miaja P et al. SFRP1 upregulation causes hippocampal synaptic dysfunction and memory impairment. *Cell reports* 2025-04-07 [PMID: 40198223]

Alban TJ, Grabowski MM, Otvos B et al. The MIF promoter SNP rs755622 is associated with immune activation in glioblastoma *JCI insight* 2023-07-10 [PMID: 37252795] (Immunohistochemistry, Human)

Details:

1:50 IHC-P dilution

Jean Paul Chadarevian; Sonia I. Lombroso; Graham C. Peet; Jonathan Hasselmann; Christina Tu; Dave E. Marzan et al. Engineering an inhibitor-resistant human CSF1R variant for microglia replacement *Journal of Experimental Medicine* 2023-03-06 [PMID: 36584406] (Immunohistochemistry, Human)

Maesawa S, Yokoyama T, Sakanoue W, Yamamoto Y et Al. ADP-mediated Modulation of Intracellular Calcium Responses in Chromaffin Cells: The Role of Ectonucleoside Triphosphate Diphosphohydrolase 2 on Rat Adrenal Medulla Function *J Histochem Cytochem* 2023-12-30 [PMID: 38158780]

Yokoyama T, Saino T, Nakamuta N, Yamamoto Y. et Al. Immunohistochemical localization of P2Y12 purinoceptors in the rat carotid body *Auton Neurosci* 2024-02-29 [PMID: 38422662]

Wang Y, Wang W, Su L, Ji F et Al. BACH1 changes microglial metabolism and affects astrogenesis during mouse brain development *Dev Cell* 2023-12-15 [PMID: 38101413]

Zhou Y, Bhatt H, Mojica CA et al. Mesenchymal-derived extracellular vesicles enhance microglia-mediated synapse remodeling after cortical injury in aging Rhesus monkeys *Journal of neuroinflammation* 2023-09-02 [PMID: 37660145] (IHC, Monkey)

Zhou Y, Bhatt H, Mojica C et al. Mesenchymal-Derived Extracellular Vesicles Enhance Microglia-mediated Synapse Remodeling after Cortical Injury in Rhesus Monkeys *Research Square* 2023-05-15 [PMID: 37292805] (IHC, Rhesus Macaque)

Li C, Liu K, Zhu J, Zhu F The effects of high plasma levels of A beta 1-42 on mononuclear macrophage in mouse models of Alzheimer's disease *Research Square* 2022-12-07 (IHC, Mouse)

Claes C, Danhash Ep, Hasselmann J Et Al. Plaque-associated human microglia accumulate lipid droplets in a chimeric model of Alzheimer's disease *Molecular neurodegeneration* 2021-07-23 [PMID: 34301296] (IF/IHC)

Walker DG, Tang TM, Mendsaikhan A et al. Patterns of Expression of Purinergic Receptor P2RY12, a Putative Marker for Non-Activated Microglia, in Aged and Alzheimer's Disease Brains *Int J Mol Sci* 2020-01-20 [PMID: 31968618] (IF/IHC, WB, Human)

Milior G, Morin-Brureau M, Chali F et al. Distinct P2Y receptors mediate extension and retraction of microglial processes in epileptic and peri-tumoral human tissue *J. Neurosci.* 2020-01-02 [PMID: 31896671] (IF/IHC, Human)

More publications at <http://www.novusbio.com/NBP2-33870>



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NBP2-24891	Rabbit IgG Isotype Control

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