

Product Datasheet

CD11c Antibody (AP-MAB0806) - Azide and BSA Free NB110-97871-0.1mg

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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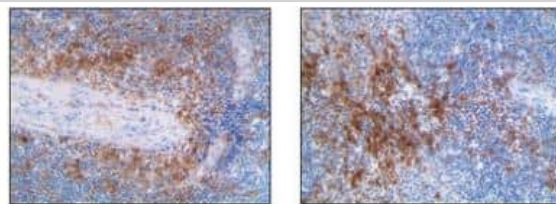
Product Information	
Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	AP-MAB0806
Preservative	No Preservative
Reconstitution Instructions	Reconstitute with sterilized PBS to a final concentration of 0.5 mg/ml.
Isotype	IgG
Purity	Protein A or G purified
Buffer	Lyophilized from a 0.2 um filtered solution in PBS.

Product Description	
Description	Novus Biologicals Armenian Hamster CD11c Antibody (AP-MAB0806) - Azide and BSA Free (NB110-97871) is a monoclonal antibody validated for use in IHC, Flow, ICC/IF and IP. Anti-CD11c Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Armenian Hamster
Gene ID	3687
Gene Symbol	ITGAX
Species	Human, Mouse
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 30455684).
Marker	Dendritic Cell Marker
Immunogen	This CD11c antibody was produced from a hybridoma (mouse myeloma fused with spleen cells) from an Armenian Hamster immunized with mouse lymphocytes.

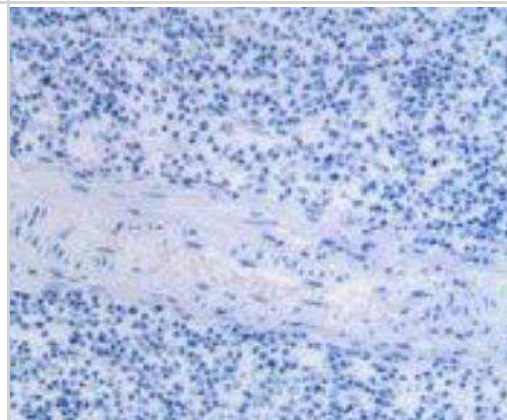
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Flow Cytometry 1:100-1:1000, Immunohistochemistry 1:25-1:100, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:25-1:100, Immunohistochemistry-Frozen, CyTOF-ready
Application Notes	4% PFA fixed and paraffin embedded mouse spleen tissue section was subjected to IHC staining of mouse CD11c. The antigen retrieval recommended for this antibody is the treatment with 20ug/ml Proteinase K in PBS for 15-25 minutes at room temperature. This antibody is CyTOF ready. Use in ICC/IF reported in scientific literature (PMID: 30300579). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID:31138656).

Images

Immunohistochemistry-Paraffin: CD11c Antibody (AP-MAB0806) [NB110-97871] - Mouse spleen tissue.



Immunohistochemistry-Paraffin: CD11c Antibody (AP-MAB0806) [NB110-97871] - Negative control, mouse spleen tissue section.



Publications

Yoo Y, Neumayer G, Shibuya Y et al. A cell therapy approach to restore microglial Trem2 function in a mouse model of Alzheimer's disease *Cell Stem Cell* 2023-01-01 [PMID: 37541210] (Immunohistochemistry-Frozen, Mouse)

Eggenhuizen, PJ;Cheong, RMY;Lo, C;Chang, J;Ng, BH;Ting, YT;Monk, JA;Loh, KL;Broury, A;Tay, ESV;Shen, C;Zhong, Y;Lim, S;Chung, JX;Kandane-Rathnayake, R;Koelmeyer, R;Hoi, A;Chaudhry, A;Manzanillo, P;Snelgrove, SL;Morand, EF;Ooi, JD; Smith-specific regulatory T cells halt the progression of lupus nephritis *Nature communications* 2024-02-06 [PMID: 38321013]

Moser V, Workman M, Hurwitz S Et al. Microglial transcription profiles in mouse and human are driven by APOE4 and sex *iScience* 2021-11-01 [PMID: 34746703] (IF/IHC, Mouse)

Garber C, Soung A et al. T cells promote microglia-mediated synaptic elimination and cognitive dysfunction during recovery from neuropathogenic flaviviruses. *Nat Neurosci* 2019-06-24 [PMID: 31235930] (IF/IHC, Mouse)

Kim J, Jeong Jh, Jung J et Al. Immunological characteristics and possible pathogenic role of urinary CD11c+ macrophages in lupus nephritis *Rheumatology (Oxford)* Mar 12 2020 12:00AM [PMID: 32163584] (IHC-P, Human)

Wang G, Xu J, Zhao J et al. Arf1-mediated lipid metabolism sustains cancer cells and its ablation induces anti-tumor immune responses in mice *Nat Commun* 2020-01-10 [PMID: 31924786] (ICC/IF, IF/IHC, Mouse)

Butti E, Bacigaluppi M, Chaabane L et al. Neural Stem Cells of the Subventricular Zone Contribute to Neuroprotection of the Corpus Callosum after Cuprizone-Induced Demyelination *J. Neurosci.* 2019-07-10 [PMID: 31138656] (IHC-Fr, Mouse)

Medler T, Murugan D, Horton W et al. Complement C5a Fosters Squamous Carcinogenesis and Limits T Cell Response to Chemotherapy *Cancer Cell.* 2018-10-08 [PMID: 30300579] (ICC/IF, ICC/IF, Mouse)

Jang Yong Ju, Lim Ji Youn, Kim Seoyeon et al. Enhanced Interferon-beta Response Contributes to Eosinophilic Chronic Rhinosinusitis. *Frontiers in Immunology* 2018-10-16 [PMID: 30455684] (IF/IHC, Human)

Lackington WA, Koci Z, Alekseeva T et al. Genetically induced brain inflammation by Cnp deletion transiently benefits from microglia depletion *FASEB J.* 2019-05-15 [PMID: 31090455]

Keren-Shaul H, Spinrad A, Weiner A et al. A Unique Microglia Type Associated with Restricting Development of Alzheimer's Disease. *Cell.* 2017-06-15 [PMID: 28602351]

Sagar D, Singh NP, Ginwala R et al. Antibody blockade of CLEC12A delays EAE onset and attenuates disease severity by impairing myeloid cell CNS infiltration and restoring positive immunity. *Sci Rep.* 2017-06-02 [PMID: 28578388] (IF/IHC, Mouse)

More publications at <http://www.novusbio.com/NB110-97871>

Procedures

Immunohistochemistry protocol for CD11c Antibody (NB110-97871)

Immunohistochemistry protocol for CD11c Antibody (NB110-97871):

1. Dewax and Rehydration: Place the slides in a rack and sequentially pass the rack through following solutions: HistoClear or Xylene twice, 10 minutes each; and then a graded series of 100%, 90%, 70%, and 50% ethanol, 2 minutes each.
2. Wash the slides with tap water for 5 minutes and once with DI water.
3. Antigen Retrieval: treat the slides with 20ug/ml proteinase K in PBS for 15-25 minutes at room temperature.
4. Wash the slides with tap water for 5 minutes and quench the endogenous peroxidase with 3% H₂O₂ in DI water for 30 minutes
5. Wash the slides with tap water for 5mins and soaking in PBS-Tween20 (0.1%)
6. Block the slides with blocking buffer (25% bovine serum in PBS-Tween20) for at least 10minutes
7. Then incubate the specimen with primary antibody (NB110-97871, dissolved with 200ul PBS) at 1:50-200 dilutions overnight at 4 degree (or room temperature if the signal is too weak).
8. Wash the slides with rotation in PBS-Tween20 for 3 times, 5 minutes each.
9. Incubate the specimen with rabbit-anti Hamster secondary antibody for 30minutes at room temperature.
10. Wash the slides with rotation in PBS-Tween 20 for 3 times, 5 minutes each.
12. Incubate the specimen with Polymer-HRP labeled anti rabbit (Dako: K4010 Envision Kit) for 30 minutes at room temperature.
13. Wash the slides with rotation in PBS-Tween20 for 3 times, 5 minutes each.
14. Perform DAB Color development (reagents available in Dako K4010).
15. Wash with tap water and count stain the nuclear with hematoxylin.

Note:

- 1) 1) If you use buffered Formalin fixatives, we recommend that Fixation should be for no longer than 1 day (4 degree preferred).
- 2) This protocol is for reference only and the final condition should be optimized by the end user.





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Products Related to NB110-97871-0.1mg

NB120-5738	Goat anti-Armenian Hamster IgG (H+L) Secondary Antibody
NBP1-97046	Armenian Hamster IgG Isotype Control
H00003687-Q01-10ug	Recombinant Human CD11c GST (N-Term) Protein
210-TA-005	TNF-alpha [Unconjugated]

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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