Product Datasheet

CD11b Antibody (M1/70.15) - BSA Free
NB600-1327SS

Unit Size: 0.025 mg

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

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Reviews: 2 Publications: 20

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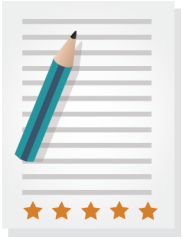
www.novusbio.com/NB600-1327

Updated 10/23/2024 v.20.1



NB600-1327SS

CD11b Antibody (M1/70.15) - BSA Free

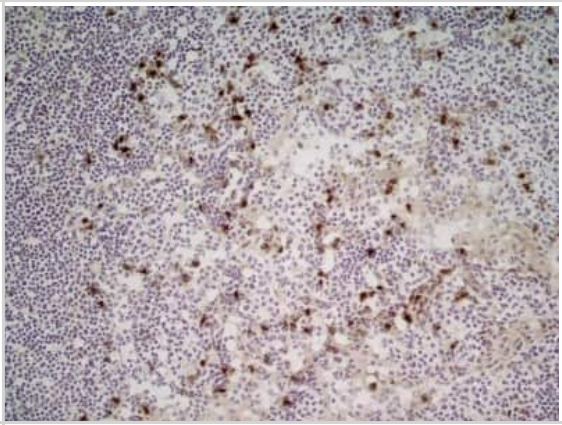
Product Information	
Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	M1/70.15
Preservative	0.02% Sodium Azide
Isotype	IgG2b Lambda
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	127.2 kDa

Product Description	
Host	Rat
Gene ID	3684
Gene Symbol	ITGAM
Species	Human, Mouse, Rabbit
Reactivity Notes	Mouse reactivity reported in a verified customer review. Rabbit reactivity reported in scientific literature (PMID: 28700779). Human reactivity reported in scientific literature (PMID: 28683563).
Marker	Microglia Marker, Myeloid Marker
Immunogen	Rat Monoclonal CD11b Antibody (M1/70.15) was made to T cell enriched splenocytes from B10 mice.

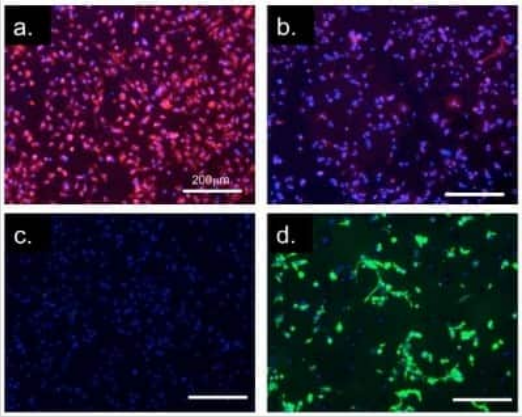
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Flow Cytometry 1:50. Use reported in scientific literature (PMID 28683563), Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported by customer review, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500. Use reported in scientific literature (PMID 28700779), Immunohistochemistry-Frozen 1:10-1:500. Use reported in scientific literature, CyTOF-ready
Application Notes	IHC-P: Perform enzymatic antigen retrieval before commencing with IHC staining protocol. NB600-1327 has been reported to as being suitable for use on PLP fixed paraffin embedded tissue but has not been tested for use on formalin fixed tissue. This antibody is CyTOF ready.

Images

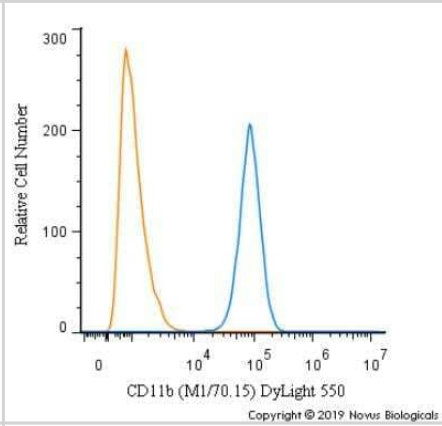
Immunohistochemistry: CD11b Antibody (M1/70.15) [NB600-1327] - Immunohistochemical analysis of frozen lymph node section using CD11b Antibody (M1/70.15) [NB600-1327] followed by staining with HRP-conjugated secondary antibody.



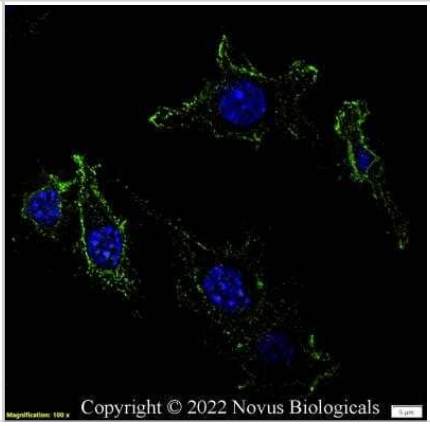
Immunocytochemistry/Immunofluorescence: CD11b Antibody (M1/70.15) [NB600-1327] - Characterization of microglia cultures by multiple staining with CD11b Antibody (M1/70.15) [NB600-1327] (panels a. & c.) and anti GFAP (panels b & d). Nuclei appear blue due to 4',6-diamidino-2-phenylindole (DAPI) counter staining.



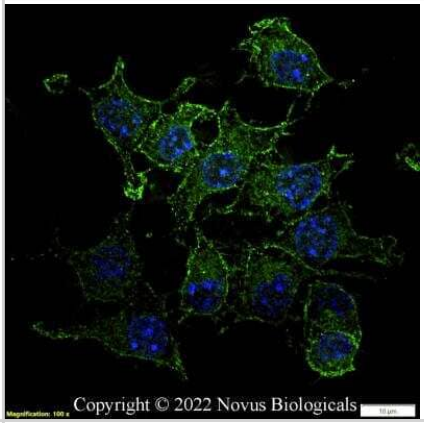
Flow Cytometry: CD11b Antibody (M1/70.15) [NB600-1327] - A surface stain was performed on Raw264.7 cells with CD11b (M1/70.15) Antibody [NB600-1327R] (blue) and a matched isotype control (orange), both conjugated to DyLight 550. Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature.



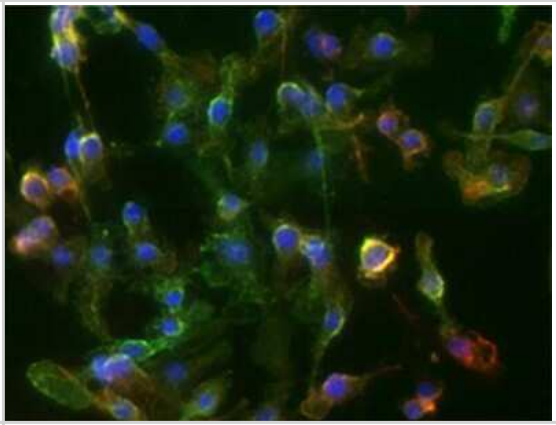
Immunocytochemistry/Immunofluorescence: CD11b Antibody (M1/70.15) - BSA Free [NB600-1327] - Raw264.7 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with CD11b Antibody [M1/70.15] (NB600-1327) at 1ug/ml overnight at 4C and detected with an anti-rat DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



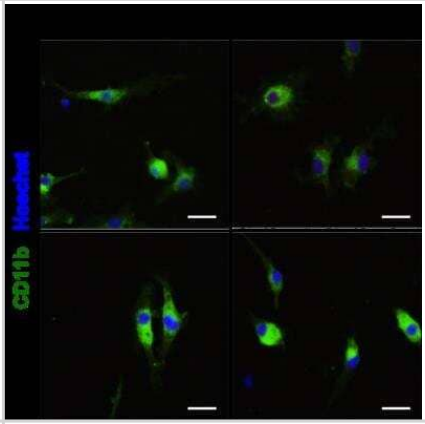
Immunocytochemistry/Immunofluorescence: CD11b Antibody (M1/70.15) - BSA Free [NB600-1327] - Raw264.7 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with CD11b Antibody [M1/70.15] conjugated to Alexa Fluor 488 (NB600-1327AF488) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



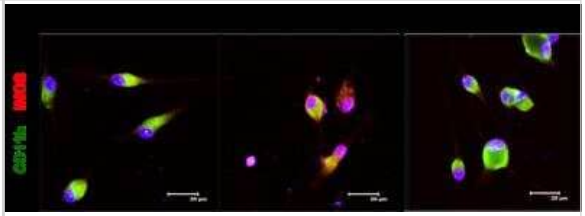
Immunocytochemistry/Immunofluorescence: CD11b Antibody (M1/70.15) [NB600-1327] - Immunocytochemistry/Immunofluorescence (ICC/IF) analysis of RAW264.7 cells using CD11b antibody (M1/70.15) [NB600-1327] with Dylight 488 conjugated secondary (green). Nuclei and tubulin were stained with 4',6-diamidino-2-phenylindole (DAPI) (blue) and Dylight 550 (red).

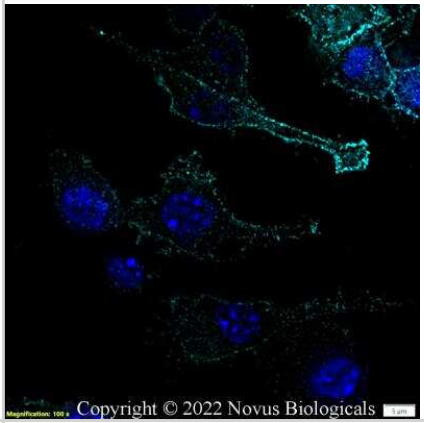
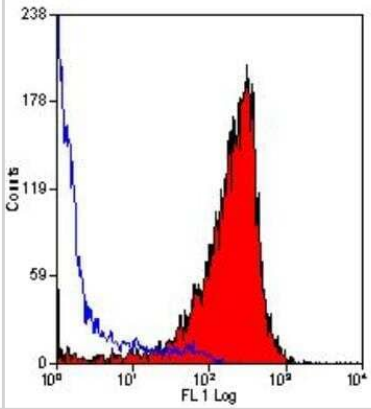
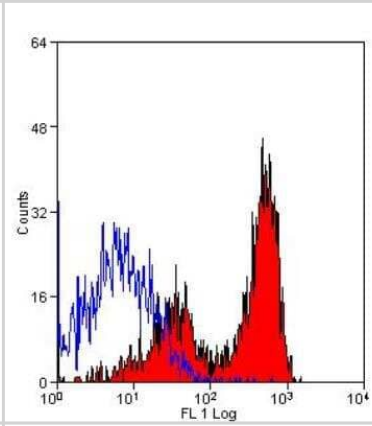
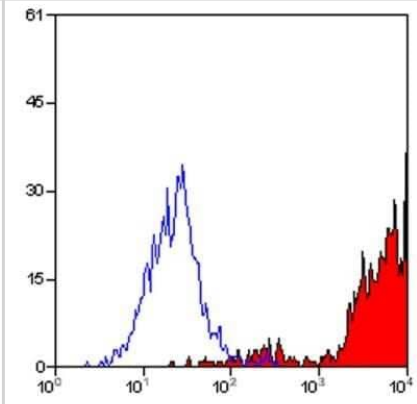


Immunocytochemistry/Immunofluorescence: CD11b Antibody (M1/70.15) [NB600-1327] - Immunocytochemical/Immunofluorescent staining in untreated and treated mouse microglia cells using CD11b Antibody (M1/70.15) [NB600-1327]. Image from a verified customer review.

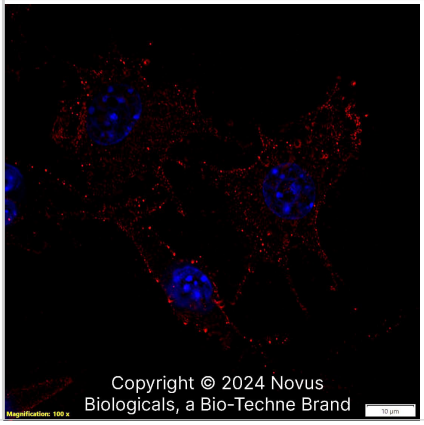


Immunocytochemistry/Immunofluorescence: CD11b Antibody (M1/70.15) [NB600-1327] - Immunocytochemical/Immunofluorescent analysis in mouse primary microglia. Cells were treated with lysophosphatidic acid (LPA) or LPA and an LPAR5 inhibitor in order to investigate the expression of iNOS after 24 hours. CD11b Antibody (M1/70.15) [NB600-1327] was used in a dilution 1:100 in order to stain primary murine microglia. Cy2 (green) and Cy3 (red) were used as secondary antibodies.



Immunocytochemistry/Immunofluorescence: CD11b Antibody (M1/70.15) - BSA Free [NB600-1327] - Raw264.7 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with CD11b Antibody [M1/70.15] conjugated to Alexa Fluor 647 (NB600-1327AF647) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.	
Flow Cytometry: CD11b Antibody (M1/70.15) [NB600-1327] - Staining of mouse peritoneal macrophages with Rat anti Mouse CD11b Antibody (M1/70.15) [NB600-1327].	
Flow Cytometry: CD11b Antibody (M1/70.15) [NB600-1327] - Staining of mouse peritoneal macrophages with Rat anti Mouse CD11b Antibody (M1/70.15) [NB600-1327]: RPE - Alexa Fluor 750	
Flow Cytometry: CD11b Antibody (M1/70.15) [NB600-1327] - Staining of mouse peritoneal macrophages using the Alexa Fluor (R) 488 conjugate of CD11b Antibody (M1/70.15) [NB600-1327AF488].	

CD11b (M1/70.15) was detected in immersion fixed Raw 264.7 mouse macrophage cell line using Rat anti-CD11b (M1/70.15) Protein-G purified Monoclonal Antibody conjugated to DyLight 550 (Catalog # NB600-1327R) (red) at 10 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Publications

Won S, Lee C, Bae S et al. Mass-produced gram-negative bacterial outer membrane vesicles activate cancer antigen-specific stem-like CD8(+) T cells which enables an effective combination immunotherapy with anti-PD-1 Journal of Extracellular Vesicles 2023-08-10 [PMID: 37563797] (Immunohistochemistry-Frozen, Mouse)

Edward N. Wilson, Congcong Wang, Michelle S. Swarovski, Kristy A. Zera, Hannah E. Ennerfelt, Qian Wang, Aisling Chaney, Esha Gauba, Javier A. Ramos Benitez, Yann Le Guen, Paras S. Minhas, Maharshi Panchal, Yuting J. Tan, Eran Blacher, Chinyere A. Iweka, Haley Cropper, Poorva Jain, Qingkun Liu, Swapnil S. Mehta, Abigail J. Zuckerman, Matthew Xin, Jacob Umans, Jolie Huang, Aarooran S. Durairaj, Geidy E. Serrano, Thomas G. Beach, Michael D. Greicius, Michelle L. James, Marion S. Buckwalter, Melanie R. McReynolds, Joshua D. Rabinowitz, Katrin I. Andreasson TREM1 disrupts myeloid bioenergetics and cognitive function in aging and Alzheimer's disease mouse models Nature neuroscience 2024-05-06 [PMID: 38539014]

Yamaguchi K, Nakayama J, Yamamoto T et al. Collagen induction of immune cells in the mammary glands during pregnancy Physiological genomics 2023-11-13 [PMID: 37955336] (IHC-P, Mouse)

Biagioli M, Marchianò S, Di Giorgio C et al. Activation of GPBAR1 attenuates vascular inflammation and atherosclerosis in a mouse model of NAFLD-related cardiovascular disease Biochemical Pharmacology 2023-11-01 [PMID: 37926268] (ICC/IF, IHC-P, Human, Mouse)

Jo WS, Kang S, Jeong SK et al. Low Dose Rate Radiation Regulates M2-like Macrophages in an Allergic Airway Inflammation Mouse Model Dose-response : a publication of International Hormesis Society 2022-08-18 [PMID: 36003321] (IHC-P, Mouse)

Xiao W, Chen W, Wang Y et al. Recombinant DT beta 4-inspired porous 3D vascular graft enhanced antithrombogenicity and recruited circulating CD93+/CD34+ cells for endothelialization Science advances 2022-07-15 [PMID: 35857526] (ICC/IF, Rat)

Harusato, A, Naito, Y Et al. BTB and CNC homolog 1 (Bach1) deficiency ameliorates TNBS colitis in mice: role of M2 macrophages and heme oxygenase-1. Inflamm Bowel Dis 2013-03-01 [PMID: 23446334] (ICC/IF, Human)

Marini C, Cossu V, Bonifacino T et al. Mechanisms underlying the predictive power of high skeletal muscle uptake of FDG in amyotrophic lateral sclerosis EJNMMI Res 2020-07-07 [PMID: 32638178] (IF/IHC, Mouse)

Plastira I, Bernhart E, Goeritzer M, et al. Lysophosphatidic acid via LPA-receptor 5/protein kinase D-dependent pathways induces a motile and pro-inflammatory microglial phenotype. J Neuroinflammation. 2016-08-26 [PMID: 29258556]

Plastira I, Bernhart E, Goeritzer M, et al. 1-Oleyl-lysophosphatidic acid (LPA) promotes polarization of BV-2 and primary murine microglia towards an M1-like phenotype. J Neuroinflammation. 2016-08-26 [PMID: 27565558] (ICC/IF, Mouse)

Gallego-Munoz P, Ibares-Frias L, Lorenzo E et al. Corneal Wound Repair After Rose Bengal and Green Light Crosslinking: Clinical and Histologic Study Invest. Ophthalmol. Vis. Sci. 2017-07-01 [PMID: 28700779] (IHC-P, Rabbit)

Amos PJ, Fung S, Case A et al. Modulation of Hematopoietic Lineage Specification Impacts TREM2 Expression in Microglia-Like Cells Derived From Human Stem Cells ASN Neuro 2017-07-07 [PMID: 28683563] (FLOW, Human)

More publications at http://www.novusbio.com/NB600-1327

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