

Product Datasheet

MHC Class II Antibody (M5/114) - Azide and BSA Free NBP2-21789

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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Updated 9/9/2025 v.20.1

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NBP2-21789

MHC Class II Antibody (M5/114) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	M5/114
Preservative	No Preservative
Isotype	IgG2b
Purity	Protein G purified
Buffer	Phosphate buffered saline (PBS), pH 7.4

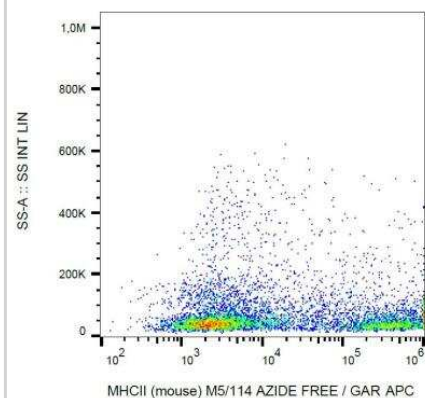
Product Description	
Description	Novus Biologicals Rat MHC Class II Antibody (M5/114) - Azide and BSA Free (NBP2-21789) is a monoclonal antibody validated for use in IHC, WB, Flow and IP. Anti-MHC Class II Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Gene ID	3108
Gene Symbol	HLA-DMA
Species	Mouse, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34166814).
Specificity/Sensitivity	The rat monoclonal antibody M5/114 reacts with murine MHC class II glycoproteins. It recognizes a shared determinant on I-Ab, I-Ad, I-Aq, and I-Ed, I-Ek alloantigens, but it does not react with I-Af, I-Ak, I-As. This antibody can inhibit I-A-restricted T cell responses of the H-2b, H-2d, H-2q, H-2u but not H-2f, H-2k, H-2s haplotypes.
Immunogen	Activated C57BL/6 mouse spleen cells

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Functional, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 2 ug/ml, Immunohistochemistry 5-10 ug/ml, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:50-1:300, Immunohistochemistry-Frozen 1:50-1:300, Functional, CyTOF-ready
Application Notes	Functional Application: Blocking of T cell proliferative responses. This antibody is CyTOF ready.



Images

Flow Cytometry: MHC Class II Antibody (M5/114) - Azide Free [NBP2-21789] - Staining of MHCII on murine splenocytes with anti-MHCII (M5/114) azide free, GAR-APC.



Publications

Chen R, Powell J, Shufesky W et al. Transplants foster B cell alloimmunity by relaying extracellular vesicles to follicular dendritic cells *Cell reports* 2025-06-24 [PMID: 40516053]

V Grubišić, JL McClain, DE Fried, I Grants, P Rajasekhar, E Csizmadia, OA Ajjola, RE Watson, DP Poole, SC Robson, FL Christofi, BD Gulbransen Enteric Glia Modulate Macrophage Phenotype and Visceral Sensitivity following Inflammation *Cell Rep*, 2020-09-08;32(10):108100. 2020-09-08 [PMID: 32905782] (Flow Cytometry, Mouse)

Dharshika C, Gonzales J, Chow A, Morales-Soto W et al. Stimulator of interferon genes (STING) expression in the enteric nervous system and contributions of glial STING in disease *Neurogastroenterol Motil* 2023-06-13 [PMID: 37309618]

Dharshika C, Gonzales J, Chow A et al. Stimulator of interferon genes (STING) expression in the enteric nervous system and contributions of glial STING in disease *Neurogastroenterology & Motility* 2023-02-27 (Immunohistochemistry)

Chow AK, Grubisic V, Gulbransen BD Enteric glia regulate lymphocyte activation via autophagy-mediated MHC-II expression *Cellular and molecular gastroenterology and hepatology* 2021-06-21 [PMID: 34166814] (IF/IHC, Rat)

Brown I The antioxidant glutathione protects against enteric neuron death in situ, but its depletion is protective during colitis. *Am J Physiol Gastrointest Liver Physiol* 2018-01-01 [PMID: 28882823] (IF/IHC, Mouse)

McLellan AD, Kapp M, Eggert A et al. Anatomic location and T-cell stimulatory functions of mouse dendritic cell subsets defined by CD4 and CD8 expression. *Blood*. 2002-03-15 [PMID: 11877283] (FLOW, Mouse)



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 NBP2-21789

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
DDXCR03	Rat IgG2b Isotype Control

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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