

Product Datasheet

MHC class II (I-A/I-E) Antibody (M5/114.15.2) - BSA Free NBP1-43312-0.1mg

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NBP1-43312-0.1mg

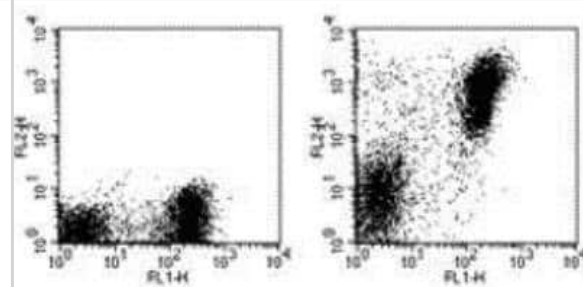
MHC class II (I-A/I-E) Antibody (M5/114.15.2) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	M5/114.15.2
Preservative	0.09% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	PBS (pH 7.2)
Product Description	
Host	Rat
Gene ID	100504404
Gene Symbol	H2-Ea
Species	Human, Mouse
Reactivity Notes	Use in Human reported in scientific literature (PMID:29990503).
Specificity/Sensitivity	The monoclonal antibody reacts with the mouse major histocompatibility complex class II, both I-A and I-E subregion-encoded glycoproteins (I-A b, I-A d, I-A q, I-E d, I-E k, not I-A f, I-A k, or I-A s). It detects a polymorphic determinant present on B cells, monocytes, macrophages, dendritic cells, and activated T lymphocytes from mice carrying the H-2 b, H-2 d, H-2 q, H-2 p, H-2 r and H-2 u but not from mice carrying the H-2 s or H-2 f haplotypes. The M5/114 mAb is reported to inhibit I-A-restricted T cell responses of the H-2 b, H-2 d, H-2 q, H-2 u but not H-2 f, H-2 k, or H-2 s haplotypes.
Immunogen	The immunogen for this antibody was MHC Class II.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry < 0.125 ug/10 ⁶ cells, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	The M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions and can be used at less than or equal to 0.125 ug per test. Cell number should be determined empirically but can range from 10 ⁵ to 10 ⁸ cells/test.

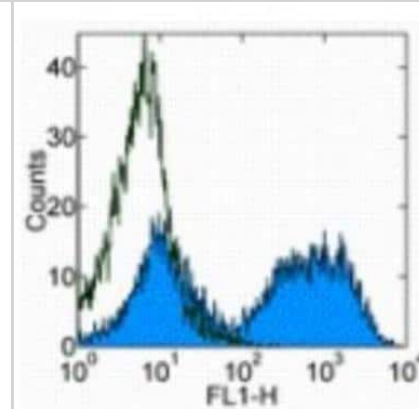


Images

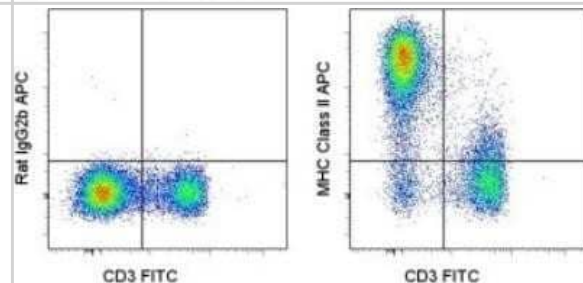
Flow Cytometry: MHC Class II Antibody (M5/114.15.2) [NBP1-43312] - Analysis using the PE conjugate of NBP1-43312. Analysis of mouse splenocyte suspensions using MHC Class II PE and can be used at less than or equal to 0.125 ug per test. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.



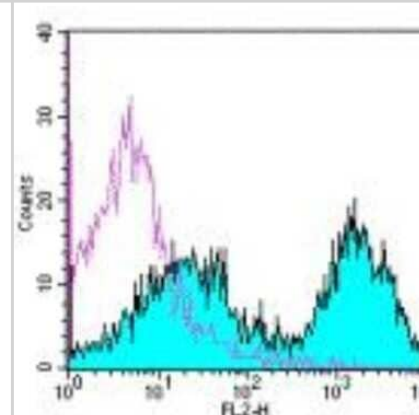
Flow Cytometry: MHC Class II Antibody (M5/114.15.2) [NBP1-43312] - Staining of C57BL/6 splenocytes with 0.06 ug of Rat IgG2b K Isotype Control Purified (cat. NBP1-43323) (open histogram) or 0.06 ug of Anti-Mouse MHC Class II (I-A/I-E) Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. NBP1-69751). Total viable cells were used for analysis.



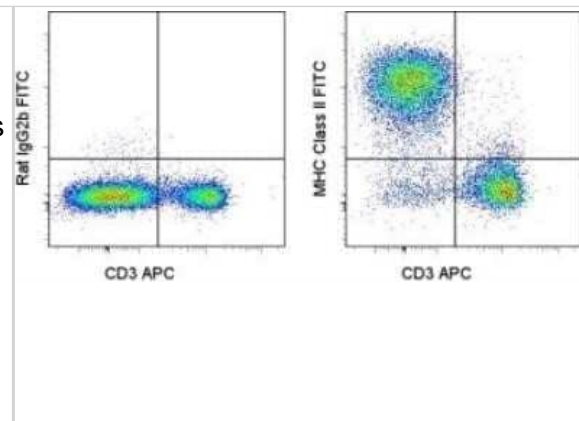
Flow Cytometry: MHC Class II Antibody (M5/114.15.2) [NBP1-43312] - Analysis using the Allophycocyanin conjugate of NBP1-43312. Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC and 0.015 micrograms of Rat IgG2b ? Isotype Control APC (left) or 0.015 micrograms of Anti-Mouse MHC Class II (I-A/I-E) APC (right).



Flow Cytometry: MHC Class II Antibody (M5/114.15.2) [NBP1-43312] - Analysis using the Biotin conjugate of NBP1-43312. Staining of C57BL/6 splenocytes with 0.015 ug of Rat IgG2b K Isotype Control Biotin (open histogram) or 0.015 ug of Anti-Mouse MHC Class II (I-A/I-E) Biotin followed by Streptavidin PE (filled histogram).



Flow Cytometry: MHC Class II Antibody (M5/114.15.2) [NBP1-43312] - Analysis using the FITC conjugate of NBP1-43312. Staining of C57BL/6 splenocytes with Anti-Mouse CD3e and 0.06 micrograms of Rat IgG2b k Isotype Control FITC (left) or 0.06 micrograms of Anti-Mouse MHC Class II (I-A/I-E) FITC (right). Cells in the lymphocyte gate were used for analysis.



Publications

Balmert SC, Ghosloujeh ZG, Carey CD et al. A microarray patch SARS-CoV-2 vaccine induces sustained antibody responses and polyfunctional cellular immunity *iScience* 2022-10-21 [PMID: 36062075]

Sobel RA, Albertelli M, Hinojoza JR et al. Azetidine-2-Carboxylic Acid-Induced Oligodendroglipathy: Relevance to the Pathogenesis of Multiple Sclerosis *Journal of Neuropathology & Experimental Neurology* 2022-05-20 [PMID: 35521963]

AK Rohlfing, K Kolb, M Sigle, M Ziegler, A Bild, P Münzer, J Sudmann, V Dicenta, T Harm, MC Manke, S Geue, M Kremser, M Chatterjee, C Liang, H von Eysmon, T Dandekar, D Heinzmann, M Günter, S von Ungern, M Büttcher, T Castor, S Mencl, F Langhauser, K Sies, D Ashour, MC Beker, M Lämmerhofe, SE Autenrieth, TE Schäffer, S Laufer, P Szklanna, P Maguire, M Heikenwald, KAL Müller, DM Hermann, E Kilic, R Stumm, G Ramos, C Kleinschni, O Borst, HF Langer, D Rath, M Gawaz ACKR3 regulates platelet activation and ischemia-reperfusion tissue injury *Nature Communications*, 2022-04-05;13(1):1823. 2022-04-05 [PMID: 35383158]

Nithianandam V, Bukhari H, Leventhal M et al. Integrative analysis reveals a conserved role for the amyloid precursor protein in proteostasis during aging *bioRxiv* 2023-10-09 [PMID: 37923712]

Gallage S, Ali A, Barragan Avila J et al. Beneficial effects of intermittent fasting in NASH and subsequent HCC development are executed by concerted PPAR α and PCK1 action in hepatocytes *bioRxiv* 2023-10-25 (IHC-P, Mouse)

Details:
Dilution 1:250

Tanaka T, Okuda H, Isonishi A et al. Dermal macrophages set pain sensitivity by modulating the amount of tissue NGF through an SNX25-Nrf2 pathway *Nature immunology* 2023-01-26 [PMID: 36703006] (IHC-Fr, Mouse)

Details:
Dilution used 1:500

Xiao J, Huang J, Jian X et al. IRE1 α arm of unfolded protein response in muscle-specific TGF- β signaling-mediated regulation of muscle cell immunological properties *Cellular & molecular biology letters* 2023-02-27 [PMID: 36849929] (WB, Mouse)

Pires, A, Greenshields-Watson, A Et al. Immune Remodeling of the Extracellular Matrix Drives Loss of Cancer Stem Cells and Tumor Rejection. *Cancer Immunol Res* 2020-12-01 [PMID: 33023965] (IHC-Fr, Mouse)

Deczkowska A, David E, Ramadori P et al. XCR1+ type 1 conventional dendritic cells drive liver pathology in non-alcoholic steatohepatitis *Nature medicine* 2021-05-20 [PMID: 34017133]

Simion V, Zhou H, Haemmig S et al. A macrophage-specific lncRNA regulates apoptosis and atherosclerosis by tethering HuR in the nucleus *Nature communications* 2020-12-01 [PMID: 33262333] (IHC-Fr, Mouse)

Georgilis A, Klotz S et al. PTBP1-Mediated Alternative Splicing Regulates the Inflammatory Secretome and the Pro-tumorigenic Effects of Senescent Cells. *Cancer Cell Sep 7 2018 12:00AM* [PMID: 29990503] (IHC, Human)

Guerrero A, Herranz N et al. Cardiac glycosides are broad-spectrum senolytics. *Nat Metab* 2019-01-11 [PMID: 31799499] (FLOW, Mouse)

More publications at <http://www.novusbio.com/NBP1-43312>



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Products Related to NBP1-43312-0.1mg

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP1-43323-0.5mg	Rat IgG2b Kappa Light Chain Isotype Control (149/10H5)
NBP1-42997-0.1mg	MHC class II (I-A/I-E) Antibody (M5/114.15.2) [Allophycocyanin]

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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