

Product Datasheet

MHC Class II Antibody (P7/7) - Chimeric - Azide and BSA Free NBP3-09015-0.2mg

Unit Size: 0.2 mg

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

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NBP3-09015-0.2mg

MHC Class II Antibody (P7/7) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	P7/7
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Rabbit MHC Class II Antibody (P7/7) - Chimeric - Azide and BSA Free (NBP3-09015) is a recombinant monoclonal antibody validated for use in IHC, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3108
Gene Symbol	HLA-DMA
Species	Mouse, Rat
Specificity/Sensitivity	This antibody recognises the rat RT1Bu/Du MHC class II antigen, and cross-reacts with haplotypes c, d, l and n. This antibody stains MHC class II molecules in a number of rat strains, including PVG, F334, LEW, and BN. However, this antibody is not reactive with RT1a haplotype rats, including Wistar rats. This antibody also cross-reacts with murine I-A and I-E molecules of all haplotypes tested, including H-2b, d, f and k, so can be used in all mouse strains.
Immunogen	This antibody was raised by immunising DA rats with PVG.R8 rat spleen cells. Splenocytes from immunised rats were then isolated, and fused to the myeloma line NSO/u to generate stable hybridomas.
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation

Application Notes

This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

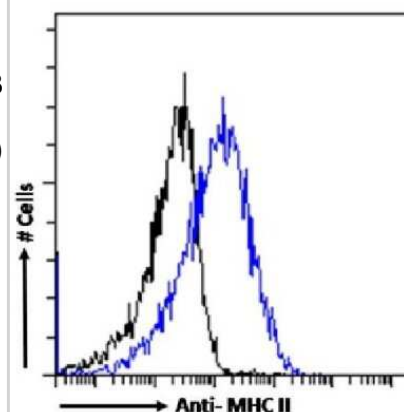
This antibody reacts with murine MHC class II I-A and I-E molecules, as confirmed by two-dimensional gel electrophoresis of Ia immunoprecipitates from metabolically labelled murine lymphoma cells (Momburg et al, 1986). Cross-blocking studies with anti-Ia beta -chain MAbs indicate that P7/7 binds to the beta -chain of murine Ia (Momburg et al, 1986). This antibody has been used to stain acetone-fixed mouse pancreas sections to study lymphocyte infiltration (Signore et al, 1987; Signore et al, 1989) and ethanol-fixed mouse brain sections (McMenamin et al, 1998). In flow cytometric analysis, this antibody has been employed to identify MHC class II-expressing murine cells (Hayball & Lake, 2004; Heath et al, 1991), and to analyse the surface phenotype of murine N9 microglial cells (Dimayuga et al, 2005). This antibody has been used in immunofluorescence analysis of acetone-fixed thymus sections to identify MHC-II positive and negative medullae (Aschenbrenner et al, 2007).

Images

Immunocytochemistry/Immunofluorescence: MHC Class II Antibody (P7/7) - Chimeric [NBP3-09015] - Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes immobilized on Shi-fix(TM) cover-slips and stained with the chimeric rabbit IgG version of P7/7 (NBP3-09015) at 10 ug/ml followed by Alexa Fluor(R) 488 secondary antibody (2 ug/ml), showing membrane staining in a subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP3-09015, DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody followed by Alexa Fluor(R) 488 secondary antibody.



Flow Cytometry: MHC Class II Antibody (P7/7) - Chimeric [NBP3-09015] - Mouse splenocytes were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG1 version of P7/7 (NBP3-09015, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-mouse IgG AlexaFluor(R) 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
664-LI-025	LIGHT/TNFSF14 [Unconjugated]
MAB1455	Albumin Antibody (188835) [Unconjugated] - Serum

Limitations

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