

Product Datasheet

HLA-DR Antibody (L243) - BSA Free NB100-77855

Unit Size: 0.1 ml

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

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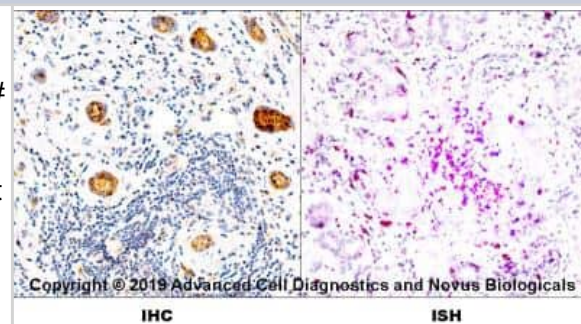
NB100-77855

HLA-DR Antibody (L243) - BSA Free

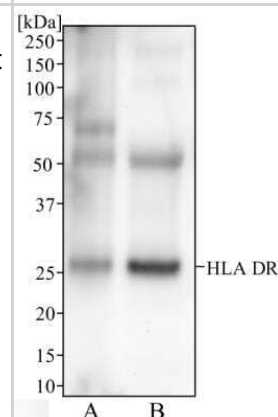
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	L243
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	28 kDa
Product Description	
Host	Mouse
Gene ID	3122
Gene Symbol	HLA-DRA
Species	Human, Canine, Baboon, Primate
Reactivity Notes	Predicted cross-reactivity with Chimpanzee, Baboon, Cynomolgus, Rhesus, Marmoset, Tamarin, Squirrel Monkey
Immunogen	Human lymphoblastoid cell line (RPMI 8866).
Product Application Details	
Applications	Western Blot, ELISA, Electron Microscopy, Flow Cytometry, Flow (Cell Surface), Functional, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, In vitro assay, Immunoprecipitation, Block/Neutralize, CyTOF-ready, Dual RNAscope ISH-IHC
Recommended Dilutions	Western Blot 1:100 - 1:2000, Flow Cytometry & 0.5 ug/10 ⁶ cells, ELISA reported in scientific literature (PMID 11070170), Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 7835916), Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:10 - 1:500, Functional reported in scientific literature (PMID 17900279), In vitro assay reported in scientific literature (PMID 19620786), Electron Microscopy reported in scientific literature (PMID 21660937), Flow (Cell Surface), CyTOF-ready, Block/Neutralize reported in scientific literature (PMID 12874328), Dual RNAscope ISH-IHC
Application Notes	It is recommended that the reagent be titrated for optimal performance for each application. This antibody is CyTOF ready.

Images

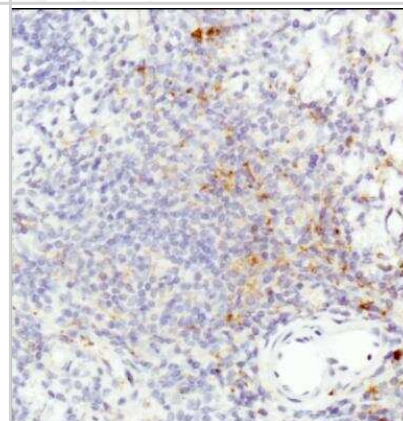
Dual RNAScope ISH-IHC: HLA-DR Antibody (L243) [NB100-77855] - Formalin-fixed paraffin-embedded tissue sections of human metastatic tonsil were probed for HLA-DR mRNA (ACD RNAScope probe, catalog # 475891; Fast Red chromogen, ACD catalog # 322500). Adjacent tissue section was processed for immunohistochemistry using mouse monoclonal (Novus catalog # NB100-77855) at 1:50 dilution for 1 hour at room temperature followed by incubation with the anti-mouse IgG VisUCyte HRP Polymer Antibody (Catalog # VC001) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue).



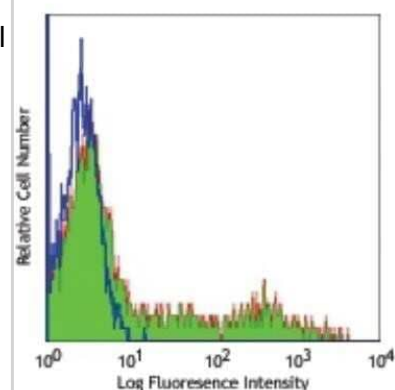
Western Blot: HLA-DR Antibody (L243) [NB100-77855] - Analysis of human spleen (A) and human tonsil (B) tissue using HLA-DR antibody at 2 ug/mL.



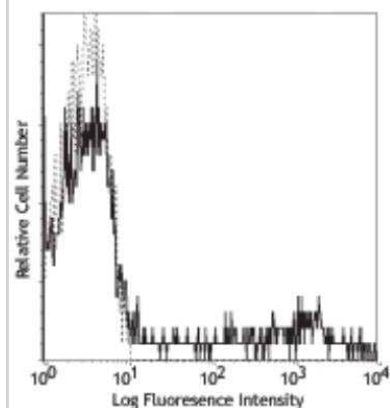
Immunohistochemistry-Paraffin: HLA-DR Antibody (L243) [NB100-77855] - Staining of HLA-DR in human spleen using DAB with hematoxylin counterstain.



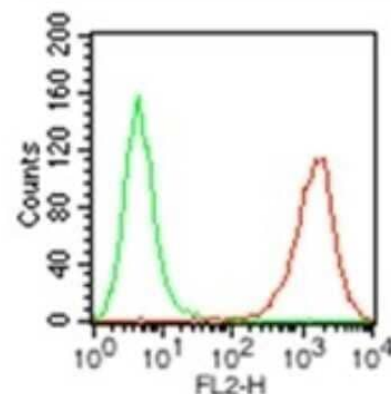
Flow Cytometry: HLA-DR Antibody (L243) [NB100-77855] - Analysis using the FITC conjugate of NB100-77855. Staining of Human peripheral blood lymphocytes with L243 FITC.



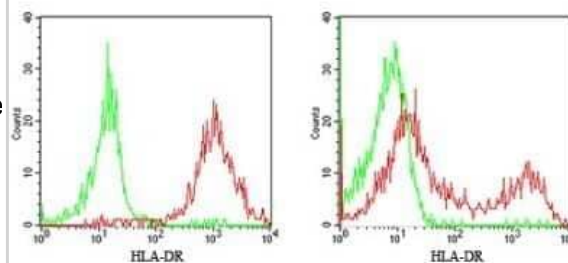
Flow Cytometry: HLA-DR Antibody (L243) [NB100-77855] - Human peripheral blood lymphocytes stained with L243 PE



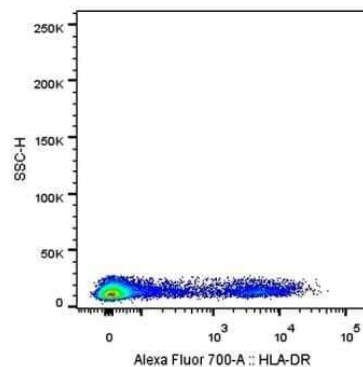
Flow (Cell Surface): HLA-DR Antibody (L243) [NB100-77855] - Analysis using the Azide Free version of NB100-77855. Staining of HLA-DR expression by 5×10^5 BDCM cells using 0.5 ug of (red) and 0.5 ug of isotype control (green). This antibody and an anti-mouse IgG PE conjugated secondary antibody were used.



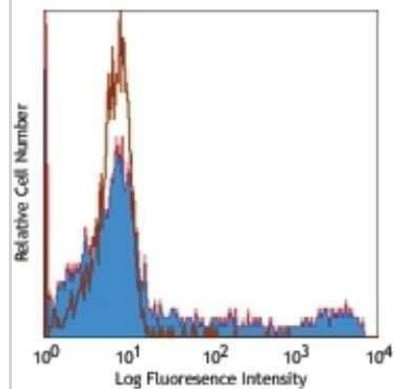
Flow Cytometry: HLA-DR Antibody (L243) [NB100-77855] - Analysis using the PerCP/Cy5.5 conjugate of NB100-77855. Staining of HLA-DR expression by 5×10^5 human PBMC using 10 uL (0.25 ug) of this antibody. Cell surface flow kit was used for this test. Left panel shows the monocyte gate, right panel shows the lymphocyte gate.



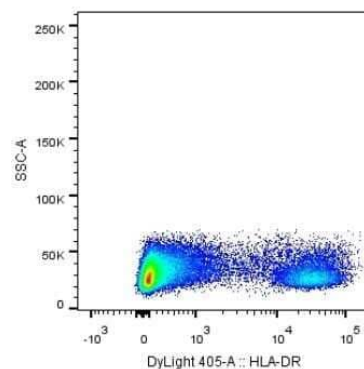
Flow Cytometry: HLA-DR Antibody (L243) [NB100-77855] - Analysis using the Alexa Fluor (R) 700 conjugate of NB100-77855. Staining of HLA-DR protein in human PBMCs using HLA-DR antibody [clone L243; conjugated to Alexa Fluor (R) 700] at 1:100 with 25 minutes incubation at 4C in 2% human serum, 0.5 mM EDTA in DPBS. Image from verified customer review.



Flow Cytometry: HLA-DR Antibody (L243) [NB100-77855] - Analysis using the Biotin conjugate of NB100-77855. Staining of Human peripheral blood lymphocytes with biotinylated L243, followed by Sav-PE.



Flow Cytometry: HLA-DR Antibody (L243) [NB100-77855] - Analysis using the DyLight 405 conjugate of NB100-77855. Staining of HLA-DR in human PBMCs using anti-HLA-DR antibody. Image from verified customer review.



Publications

Balmert SC, Ghozloujeh 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]

Bhargavan B, Woollard SM, McMillan JE, Kanmogne GD CCR5 antagonist reduces HIV-induced amyloidogenesis, tau pathology, neurodegeneration, and blood-brain barrier alterations in HIV-infected hu-PBL-NSG mice *Molecular neurodegeneration* 2021-11-22 [PMID: 34809709]

Mo Y, Cheung AKL, Liu Y et al. Imaging and analysis on the interaction between human antigen-pulsed V delta 2 T cells and antigen-specific CD4 T cells *STAR Protocols* 2021-06-01 [PMID: 33937873]

Liu L, Fang C, Fu W et al. Endothelial Cell-Derived IL-18 Released During Ischemia Reperfusion Injury Selectively Expands T Peripheral Helper Cells to Promote Alloantibody Production *Circulation* 2019-11-20 [PMID: 31744330]

Shibutani M, Maeda K, Nagahara H et al. A comparison of the local immune status between the primary and metastatic tumor in colorectal cancer: a retrospective study. *BMC Cancer* 2018-04-03 [PMID: 29614981] (IF/IHC, Human)

Petersen SH Odintsova E Haigh TA et al. The role of tetraspanin CD63 in antigen presentation via MHC class II. *Eur J Immunol.* 2011-09-01 [PMID: 21660937] (EM, Human)

Apps R Murphy SP Fernando R et al. Human leucocyte antigen (HLA) expression of primary trophoblast cells and placental cell lines, determined using single antigen beads to characterize allotype specificities of anti-HLA antibodies. *Immunology.* 2009-05-01 [PMID: 19368562] (FLOW, Human)

Ivanov A Beers SA Walshe CA et al. Monoclonal antibodies directed to CD20 and HLA-DR can elicit homotypic adhesion followed by lysosome-mediated cell death in human lymphoma and leukemia cells. *J Clin Invest.* 2009-08-01 [PMID: 19620786] (Func, In vitro, Human)

Setterblad N Garban F Weigl R et al. Extracorporeal photopheresis increases sensitivity of monocytes from patients with graft-versus-host disease to HLA-DR-mediated cell death. *Transfusion* 2008-01-01 [PMID: 17900279] (Func, Human)

Details:

HLA DRB1 antibody (clone L243) was used at 10ug/ml concentration for induction of cell death ex vivo on peripheral blood mononuclear cells /PBMNCs that were isolated from graft-versus-host disease/GVHD patients.

Wahlstrom J Dengjel J Persson B et al. Identification of HLA-DR-bound peptides presented by human bronchoalveolar lavage cells in sarcoidosis. *J Clin Invest.* 2007-11-01 [PMID: 17975675]

Ovsyannikova IG Johnson KL Naylor S Poland GA. Identification of HLA-DRB1-bound self-peptides following measles virus infection. *J Immunol Methods.* 2005-02-01 [PMID: 15777939] (FLOW, Human)

Pashine A Busch R Belmares MP et al. Interaction of HLA-DR with an acidic face of HLA-DM disrupts sequence-dependent interactions with peptides. *Immunity* 2003-08-01 [PMID: 12932352] (FLOW)

More publications at <http://www.novusbio.com/NB100-77855>





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 NB100-77855

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NB100-77855V	HLA-DR Antibody (L243) [DyLight 405]

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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