

Mouse HLA-DR Antibody | anti-HLA-DR antibody

Anti-HLA-DR Biotin

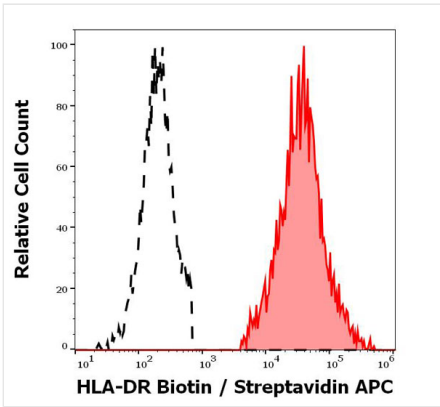
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129338	Mouse	Dog, Non-human primates, Human	Immunohistochemistry, Immunoprecipitation, Immunocytochemistry, Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

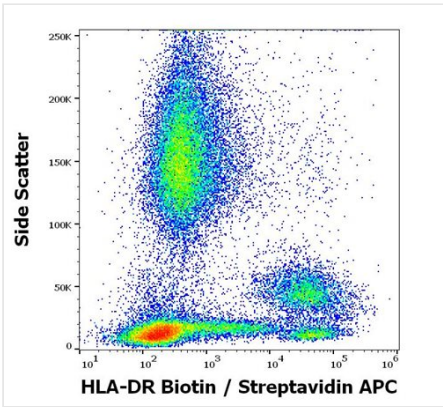
HLA-DR; Anti-HLA-DR Biotin; anti-HLA-DR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Dog, Non-human primates, Human
Isotype	Mouse IgG2a kappa
Clone Number	L243
Specificity	The mouse monoclonal antibody L243 recognizes specifically an extracellular epitope on HLA-DR molecules, both peptide-loaded and empty.
Purity/Purification	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Form/Format	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HLA-DR antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
Immunogen	Human B lymphocytes
Conjugation	Biotin
Preparation and Storage	Store at 2-8 degree C. Do not freeze.



FCM/FACS (Flow Cytometry)
Separation of human monocytes (red-filled) from HLA-DR negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human HLA-DR (L243) Biotin antibody (concentration in sample 1.67ug/ml, Streptavidin APC).



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human HLA-DR (L243) Biotin antibody (concentration in sample 1.67ug/ml, Streptavidin APC).

ADDITIONAL INFORMATION

Related Product Information for anti-HLA-DR antibody	HLA-DR, a member of MHC class II glycoproteins, that bind intracellularly processed peptides and present them to the Th cells, is composed of 36 kDa alpha chain and 27 kDa beta chain, both anchored in the plasma membrane. Together with other MHC II molecules HLA-DR plays a central role in the immune system.
References	*Coral S, Pucillo C, Leonardi A, Fonsatti E, Altomonte M, Maio M: Triggering of HLA-DR antigens differentially modulates tumor necrosis factor alpha release by B cells at distinct stage of maturation. Cell Growth Differ. 1997 May;8(5):581-8., URL: http://www.ncbi.nlm.nih.gov/pubmed/9149909 ,*Muczynski KA, Ekle DM, Coder DM, Anderson SK: Normal human kidney HLA-DR-expressing renal microvascular endothelial cells: characterization, isolation, and regulation of MHC class II expression. J Am Soc Nephrol. 2003 May;14(5):1336-48., URL: http://www.ncbi.nlm.nih.gov/pubmed/12707403 ,*Cantin R, Martin G, Tremblay MJ: A novel virus capture assay reveals a differential acquisition of host HLA-DR by clinical isolates of human immunodeficiency virus type 1 expanded in primary human cells depending on the nature of producing cells and the donor source. J Gen Virol. 2001 Dec;82(Pt 12):2979-87. , URL: http://www.ncbi.nlm.nih.gov/pubmed/11714974 ,*Swiatek-de Lange M, Rist W, Stahl HF, Weith A, Lenter MC: Comment on "MHC class II expression identifies functionally distinct human regulatory T cells". J Immunol. 2008 Mar 15;180(6):3625; author reply 3626., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=comment%20on%20mhc%20class%20ii%20expression%20identifies ,*De Gassart A, Camosseto V, Thibodeau J, Ceppi M, Catalan N, Pierre P, Gatti E: MHC class II stabilization at the surface of human dendritic cells is the result of maturation-dependent MARCH I down-regulation. Proc Natl Acad Sci U S A. 2008 Mar 4;105(9):3491-6., URL: https://pubmed.ncbi.nlm.nih.gov/18305173/ ,*Ivanov A, Beers SA, Walshe CA, Honeychurch J, Alduaij W, Cox KL, Potter KN, Murray S, Chan CH, Klymenko T, Erenpreisa J, Glennie MJ, Illidge TM, Cragg MS: 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 Aug;119(8):2143-59., URL: http://www.ncbi.nlm.nih.gov/pubmed/19620786 ,*Kalka-Moll WM, Tzianabos AO, Bryant PW, Niemeyer M, Ploegh HL, Kasper DL: Zwitterionic polysaccharides stimulate T cells by MHC class II-dependent interactions. J Immunol. 2002 Dec 1;169(11):6149-53., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=tzianabos+ao+bryant+pw ,*Bouillon M, El Fakhry Y, Girouard J, Khalil H, Thibodeau J, Mourad W: Lipid raft-dependent and -independent signaling through HLA-DR molecules. J Biol Chem. 2003 Feb 28;278(9):7099-107., URL: http://www.ncbi.nlm.nih.gov/pubmed/12499388 ,*Quardokus EM, Saunders DC, McDonough E, Hickey JW, Werlein C, Surrette C, Rajbhandari P, Martinez Casals A, Tian H, Lowery L, Neumann EK, Bjorklund F, Neelakantan TV, Croteau J, Wiblin AE, Fisher J, Livengood AJ, Dowell KG, Silverstein JC, Spraggins JM, Pryhuber GS, Deutsch G, Ginty F, Nolan GP, Melov S, Jonigk D, Caldwell MA, Vlachos IS, Mueller W, Gehlenborg N, Stockwell BR, Lundberg E, Snyder MP, Germain RN, Camarillo JM, Kelleher NL, Borner K, Radtke AJ: Organ mapping antibody panels: a community resource for standardized multiplexed tissue imaging. Nat Methods 2023 Aug;20(8):1174-1178. doi: 10.1038/s41592-023-01846-7., URL: https://pubmed.ncbi.nlm.nih.gov/37468619/,

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