

Mouse anti-Human HLA-DP/-DQ/-DR Monoclonal Antibody | anti-HLA-DP/-DQ/-DR antibody

HLA-DP/-DQ/-DR (MHC II)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23889	Mouse	Human	Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

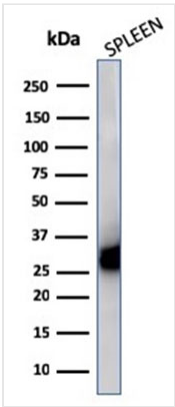
HLA-DP/-DQ/-DR; Monoclonal Antibody; HLA-DP/-DQ/-DR (MHC II); HLA-DPB1; HLA-DQA1; HLA-DQB1; HLA-DRA; HLA-DRB1; HLA-DRB3; HLA-DRB4; HLA-DRB5;; anti-HLA-DP/-DQ/-DR antibody

PRODUCT SPECIFICATIONS

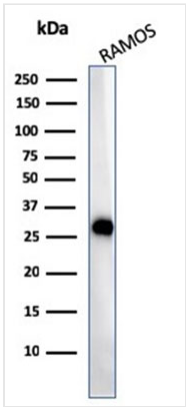
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CR3/43
Specificity	Reacts with a common epitope of human major histocompatibility (MHC) class II antigens, HLA-DP, -DQ and -DR. Human MHC class II antigens are transmembrane glycoproteins composed of an chain (36kDa) and a chain (27kDa). They are expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, and thymic epithelial cells and are also present on activated T lymphocytes. Human MHC class II genes are located in the HLA-D region that encodes at least six and ten chain genes. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides and present them to T-helper cells. They, therefore, have a critical role in the initiation of the immune response. It has been shown that some autoimmune diseases are associated with certain class II alleles.
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	258
Applicable Applications for anti-HLA-DP/-DQ/-DR antibody	IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	ELISA: (For coating use Ab at 2-4ug/ml, order Ab without BSA) Flow Cytometry: (1-2ug/ million cells) Immunofluorescence: (1-2ug/ml) Western Blot: (1-2ug/ml) Immunohistochemistry (Formalin-fixed): (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 degree C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Human Chromosome Location	6p21.3 (HLA-DP & HLA-DR)
Immunogen	Cells from human tonsil
Hu-chromosome Location	6p21.3 (HLA-DP & HLA-DR)
Positive Control	Raji cells. Tonsil or lymph node
Cellular Localization	Cell Surface

Positive Control	Ramos, Raji cells. Tonsil, Spleen or lymph node.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

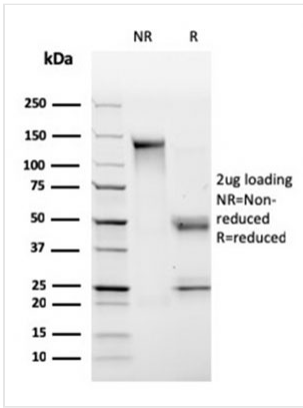
IMAGES



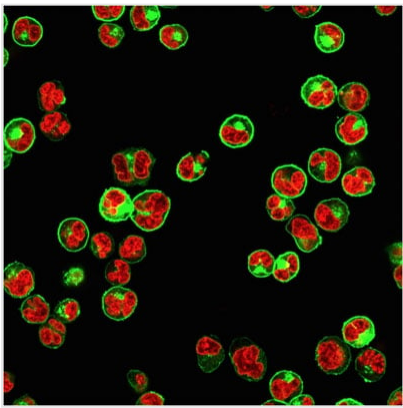
WB (Western Blot)
Western Blot Analysis of Human Spleen cell lysate using HLA-Pan Mouse Monoclonal Antibody (CR3/43).



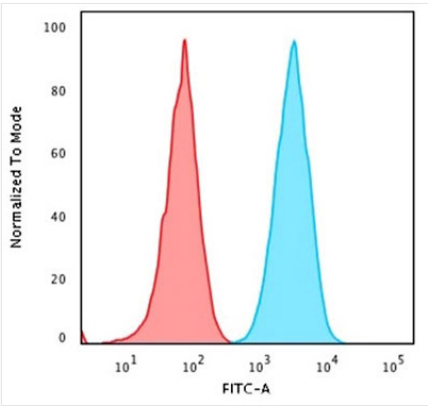
WB (Western Blot)
Western Blot Analysis of Ramos cell lysate using HLA-Pan Mouse Monoclonal Antibody (CR3/43).



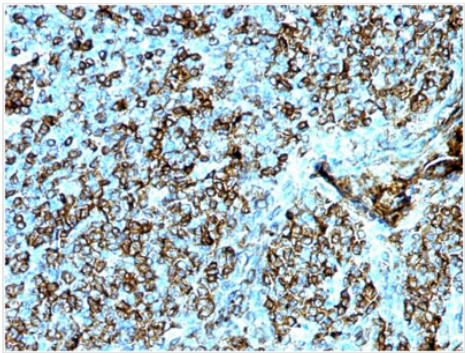
SDS-PAGE
SDS-PAGE Analysis Purified HLA-Pan Mouse Monoclonal Antibody (CR3/43). Confirmation of Purity and Integrity of Antibody.



IF (Immunofluorescence)
Immunofluorescent staining of Raji cells. HLA- Pan Mouse Monoclonal Antibody (CR3/43) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



FCM (Flow Cytometry)
Flow Cytometric Analysis of Human Raji cells using HLA-Pan Mouse Monoclonal Antibody (CR3/43) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with HLA- Pan Mouse Monoclonal Antibody (CR3/43).

ADDITIONAL INFORMATION

References	Gatter et al. 1982. J Clin Pathol. 35(11):1253-67. Gatter et al. 1982. Semin Oncol. 9(4):517-25.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24797076
NCBI GeneID	3115
NCBI Accession #	NP_002112.3
NCBI GenBank Nucleotide #	NM_002121.5
UniProt Accession #	P04440; A0PFJ7; A5I886; A8YPB3; B5U8B4; B7VF80; B7VF87; B8ZX68; B8ZYT0; B9W5S8; B9W6F7; B9W6F9
Molecular Weight	36kDa (alpha chain); 27kDa (beta chain)
NCBI Official Full Name	HLA class II histocompatibility antigen, DP beta 1 chain
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DP beta 1
NCBI Official Symbol	HLA-DPB1
NCBI Official Synonym Symbols	DPB1; HLA-DP; HLA-DPB; HLA-DP1B
NCBI Protein Information	HLA class II histocompatibility antigen, DP beta 1 chain
UniProt Protein Name	HLA class II histocompatibility antigen, DP beta 1 chain
UniProt Gene Name	HLA-DPB1
UniProt Synonym Gene Names	HLA-DP1B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/hla-dp-dq-dr-antibody-clone-cr3-43-immunofluorescence-immunohistochemistry-elisa/23889>