

anti-Human HLA-Pan Antibody | anti-HLA-Pan antibody

HLA-Pan (MHC II)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23950	Rabbit/IgG, kappa	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

HLA-Pan; HLA-Pan (MHC II); HLA-DPB1; HLA-DQA1; HLA-DQB1; HLA-DRA; HLA-DRB1; HLA-DRB3; HLA-DRB4; HLA-DRB5; anti-HLA-Pan antibody

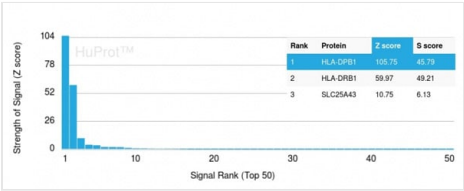
PRODUCT SPECIFICATIONS

Host	Rabbit/IgG, kappa
Reactivity	Human
Isotype	IgG
Clone Number	HLA-Pan/2967R
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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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-Pan antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	ELISA: For coating use Ab at 2-5ug/ml, order Ab without BSA FC/FACS: 1-2ug/million cells IF: 1-2ug/ml WB: 1-2ug/ml Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissues sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Positive Control	Ramos or Raji cells. Tonsil or lymph node.
Immunogen	Non-T, non-B human acute lymphoblastic leukemia REH6 cell line
Cellular Localization	Cell Surface
Hu-chromosome Location	6p21.3 (HLA-DP & HLA-DR)
Antibody Type	Recombinant Rabbit Monoclonal Antibody

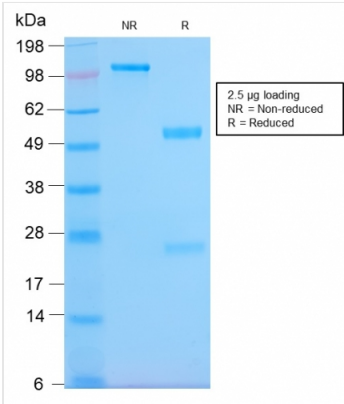
Preparation and Storage

Antibody with azide: store at 2 to 8°C.
Antibody without azide: store at -20 to -80°C.
Antibody is stable for 24 months. Non-hazardous. No MSDS required.

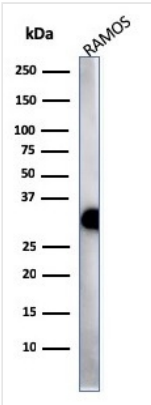
IMAGES



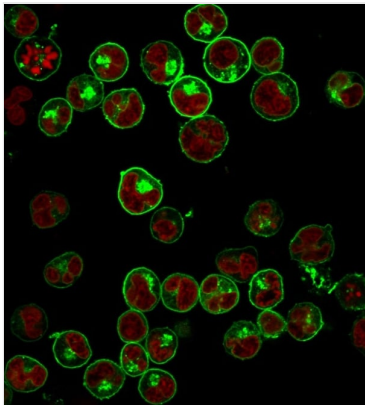
Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using HLA-Pan Rabbit Recombinant Monoclonal Antibody (HLA-Pan/2967R). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



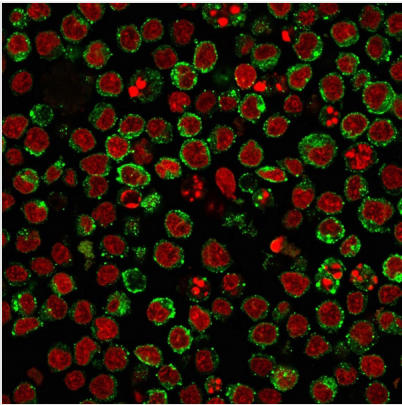
SDS-PAGE
SDS-PAGE Analysis Purified HLA-Pan Rabbit Recombinant Monoclonal (HLA-Pan/2967R). Confirmation of Purity and Integrity of Antibody.



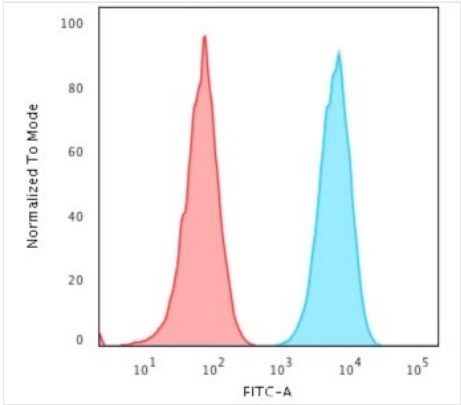
WB (Western Blot)
Western Blot Analysis of Ramos cell lysate using HLA-Pan Recombinant Rabbit Monoclonal Antibody (HLA-Pan/2967R).



IF (Immunofluorescence)
Immunofluorescence staining of Raji cells using HLA-Pan Recombinant Rabbit Monoclonal Antibody (HLA-Pan/2967R) followed by goat anti-rabbit IgG-CF488 (Green). Nuclei stained with Reddot (Red).



FCM (Flow Cytometry)
Flow Cytometric Analysis of Ramos cells using HLA-Pan Recombinant Rabbit Monoclonal Antibody (HLA-Pan/2967R) followed by goat anti-rabbit IgG-CF488 (Blue); Isotype control (Red).



FCM (Flow Cytometry)
Flow Cytometric Analysis of Raji cells using HLA-Pan Recombinant Rabbit Monoclonal Antibody (HLA-Pan/2967R) followed by goat anti-rabbit IgG-CF488 (Blue); Isotype control (Red).

ADDITIONAL INFORMATION

References	1. Gatter et al. 1982. Semin Oncol. 9(4):517-25. 2. Gatter et al. 1982. J Clin Pathol. 35(11):1253-67.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	122263
NCBI GeneID	3115
UniProt Accession #	P04440; P01908; P01909; P01920; P01903
Molecular Weight	33-35kDa
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
UniProt Entry Name	DPB1_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/rabbit-human-antibody/hla-pan/23950>