

Rat HLA DR Monoclonal Antibody | anti-HLA DR antibody

RAT ANTI HUMAN HLA DR

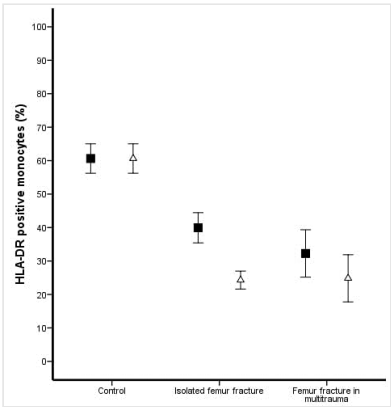
CATALOG # AAA49435	HOST Rat	APPLICATIONS Immunohistochemistry, Flow Cytometry, Functional Assay, Immunohistochemistry
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PRODUCT SYNONYMS

HLA DR; Monoclonal Antibody; RAT ANTI HUMAN HLA DR; anti-HLA DR antibody

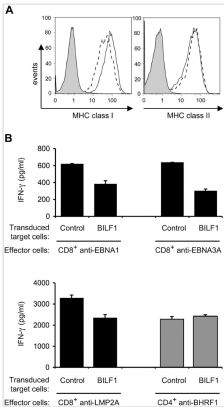
PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	YE2/36-HLK
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	42
Applicable Applications for anti-HLA DR antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



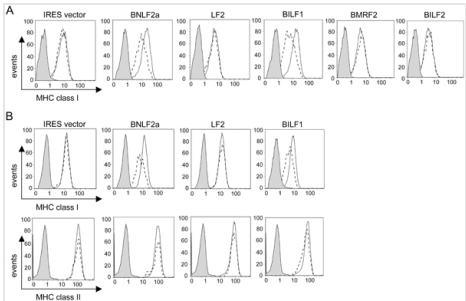
Application Data

Published customer image: Rat anti Human HLA-DR antibody, clone YE2/36-HLK used for flow cytometryImage caption:HLA-DR positive monocytes. The percentage HLA-DR positive monocytes was decreased in all patients compared to controls (P = 0.002). The pre-operative ("black square") lowest percentage was seen in patients who developed respiratory failure (P = 0.002). Eighteen hours after intramedullary nailing ("open triangle"), a further decrease in HLA-DR positive monocytes was seen in patients with isolated femur fracture (P < 0.001) and multitrauma patients (P = 0.047).From: Hietbrink, Falco, Leo Koenderman, and Luke PH Leenen. æIntramedullary Nailing of the Femur and the Systemic Activation of Monocytes and Neutrophils. World Journal of Emergency Surgery?: WJES 6 (2011): 34. PMC. Web. 22 Jan. 2015.



Application Data

Published customer image: Rat anti Human HLA-DR antibody, clone YE2/36-HLK used for flow cytometryImage caption:BILF1 downregulates surface MHC class I expression and inhibits the T cell recognition of endogenous EBV antigen in LCLs. (A) LCLs were transduced with PLZRS-HABILF1-IRES-GFP retrovirus. After 6 days, surface MHC class I was stained with PE-conjugated W6/32 mAb and MHC class II was stained with PE-conjugated anti-DR mAb, YE2/36-HLK. Two-colour flow cytometry was used to analyze staining in the untransduced, GFP-, population, shown as the solid line histogram, and in the transduced GFP+ (BILF1+) population, shown as the dashed line histogram. The grey histogram denotes background staining obtained with an isotype control PE-conjugated antibody. (B) LCL cultures transduced with control retrovirus or with the BILF1 retrovirus were sorted by flow cytometry to generate GFP+/BILF1- and GFP+/BILF1+ lines to use as targets in assays with EBV-specific T cells. The control and BILF1+ LCL targets were incubated with HLA-matched CD8+ effector T cells clones specific for EBNA1 (HPV), EBNA3A (YPL), or LMP2A (CLG) peptides, or a CD4+ effector T cell clone specific for a BHRF1 (PYY) peptide. After 18 hrs the supernatants were tested for the release of IFN-? as a measure of T cell recognition. All results are expressed as IFN-? release in pg/ml and error bars indicate standard deviation of triplicate cultures.From: Zuo J, Currin A, Griffin BD, Shannon-Lowe C, Thomas WA, et al. (2009) The Epstein-Barr Virus G-Protein-Coupled Receptor Contributes to Immune Evasion by Targeting MHC Class I Molecules for Degradation. PLoS Pathog 5(1): e1000255.



Application Data

Published customer image: Rat anti Human HLA-DR antibody, clone YE2/36-HLK used for flow cytometryImage caption:BILF1 identified as a lytic gene that downregulates surface MHC class I. 293 (A) or MJS (B) cells were transfected with different EBV genes in the bi-cistronic vector, pCDNA3-IRES-nlsGFP. At 48 hr post-transfection, surface MHC class I was stained with PE-conjugated W6/32 mAb and (in MJS only) MHC class II was stained with PE-conjugated anti-DR mAb, YE2/36-HLK. Two-colour flow cytometry was used to analyse staining in the untransfected GFP- population, shown as the solid line histogram, and in the transfected GFP+ population, shown as the dashed line histogram. The grey histogram denotes background staining obtained with an isotype control PE-conjugated antibody.From: Zuo J, Currin A, Griffin BD, Shannon-Lowe C, Thomas WA, et al. (2009) The Epstein-Barr Virus G-Protein-Coupled Receptor Contributes to Immune Evasion by Targeting MHC Class I Molecules for Degradation. PLoS Pathog 5(1): e1000255.

ADDITIONAL INFORMATION

Related Product Information for anti-HLA DR antibody	Rat anti Human HLA DR antibody, clone YE2/36-HLK recognizes a monomorphic determinant of human HLA DR which is an MHC class II cell surface receptor expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages and activated T lymphocytes. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region. There are 3 major MHC class II proteins encoded by the HLA which are HLA DP, HLA DQ and HLA DR. Rat anti Human HLA DR antibody, clone YE2/36-HLK has also been reported to be cross reactive with mouse H-2 haplotypes b, d and q expressed by mouse strains including C57BL/6, DBA, and NZB (Brickell, P.M. et al. 1981).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	642238
NCBI GeneID	3119
UniProt Accession #	Q29900; P01920
Molecular Weight	5,068 Da
NCBI Official Full Name	HLA-DR, partial
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DQ beta 1
NCBI Official Symbol	HLA-DQB1
NCBI Official Synonym Symbols	IDDM1; CELIAC1; HLA-DQB
NCBI Protein Information	HLA class II histocompatibility antigen, DQ beta 1 chain; MHC DQ beta; MHC class II DQ beta chain; MHC class II HLA-DQ beta glycoprotein; MHC class II antigen DQB1; MHC class II antigen HLA-DQ-beta-1; MHC class2 antigen; lymphocyte antigen
UniProt Protein Name	HLA-DR
UniProt Entry Name	Q29900_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://stage.aaabiotech.com/monoclonal/hla-dr-antibody-clone-ye2-36-hlk-immunohistochemistry-flow-cytometry-immunohistochemistry-elisa/49435>