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36-3747: Anti-HLA-Pan (MHC II) Monoclonal Antibody(Clone: rHLA-Pan/3475)

Clonality :	Monoclonal
Clone Name :	rHLA-Pan/3475
Application :	FACS,IF,WB,IHC
Reactivity :	Human
Gene :	HLA-DP; HLA-DQ; HLA-DR
Gene ID :	3115; 3117; 3122
Uniprot ID :	P04440; P01908; P01909; P01920; P01903
Alternative Name :	HLA-DPB1; HLA-DQA1; HLA-DQB1; HLA-DRA; HLA-DRB1; HLA-DRB3; HLA-DRB4; HLA-DRB5
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Non-T, non-B human acute lymphoblastic leukemia REH6 cells

Description

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 alpha chain (36kDa) and a beta 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 alpha and ten beta 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

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 &degC followed by cooling at RT for 20 minutes),

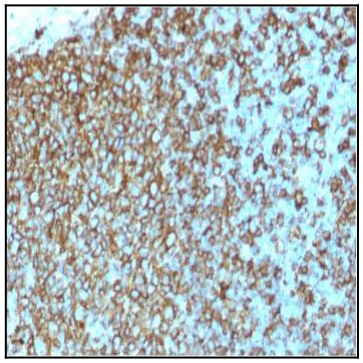


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with HLA-Pan Mouse Recombinant Monoclonal Antibody (rHLA-Pan/3475).

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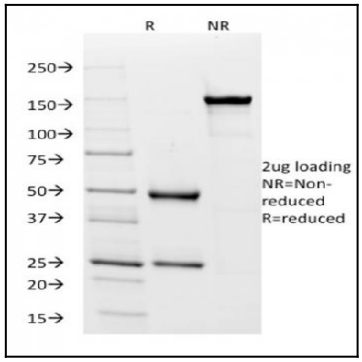


Fig. 2: SDS-PAGE Analysis Purified HLA-Pan Mouse Recombinant Monoclonal Antibody (rHLA-Pan/3475). Confirmation of Purity and Integrity of Antibody.

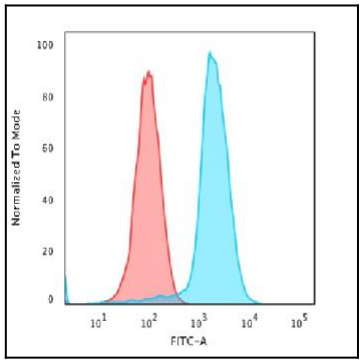


Fig. 3: Flow Cytometric Analysis of Human Raji cells using HLA-Pan Mouse Recombinant Monoclonal Antibody (rHLA-Pan/3475)followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).

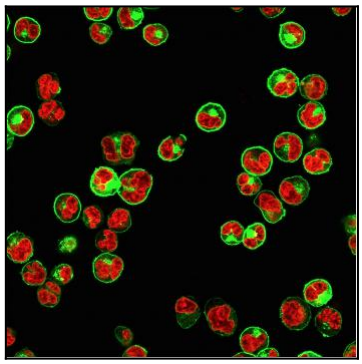


Fig. 4: Immunofluorescence Analysis of Human Raji cells with HLA-Pan Mouse Recombinant Monoclonal Antibody (rHLA-Pan/3475) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

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