NeoBiotechnologies
Your Partner in Proteome Research

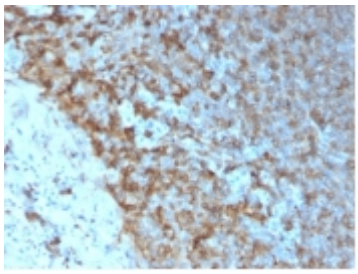
HLA-Pan (MHC II)

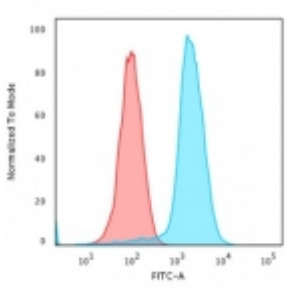
Recombinant Mouse Monoclonal Antibody [Clone rHLA-Pan/3475]

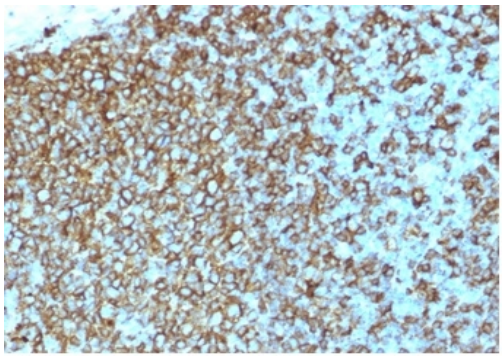
Catalog No	Format	Size	Price (USD)
MSM2-3475-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
MSM2-3475-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
MSM2-3475-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	3115 (HLA-DP); 3117 (HLA-DQ); 3122 (HLA-DR)
Human SwissProt	P04440 (HLA-DP); P01908; P01909; P01920 (HLA-DQ); P01903 (HLA-DR)
Human Unigene	347270 (HLA-DP); 550475 (HLA-DQ); 520048 (HLA-DR)
Human Gene Symbol	HLA-DP; HLA-DQ; HLA-DR
Human Chromosome Location	6p21.3 (HLA-DP & HLA-DR)
Synonyms	HLA-DPB1; HLA-DQA1; HLA-DQB1; HLA-DRA; HLA-DRB1; HLA-DRB3; HLA-DRB4; HLA-DRB5

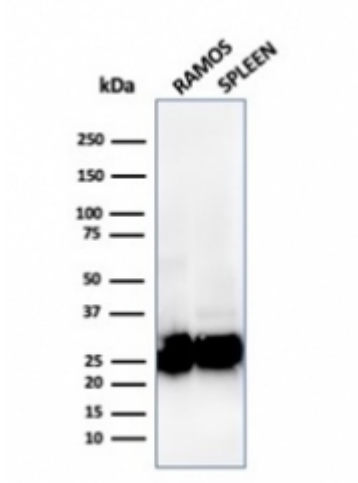
Immunogen	Non-T, non-B human acute lymphoblastic leukemia REH6 cells
Host / Ig Isotype	Mouse / IgG1, kappa
Mol. Weight of Antigen	33-35kDa
Cellular Localization	Cell Surface
Species Reactivity	Human.
Positive Control	Raji cells. Human tonsil or lymph node.

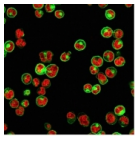


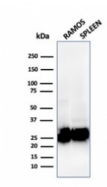


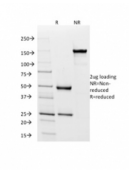


Formalin-fixed, paraffin-embedded human tonsil stained with HLA-Pan Mouse Recombinant Monoclonal Antibody (rHLA-Pan/3475).









Specificity & Comments

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.

Known Applications & Suggested Dilutions

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)
Optimal dilution for a specific application should be determined.

Key References

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

Supplied As

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.

Storage and Stability

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.

Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.