

Product Datasheet

HLA DQ Antibody (SPV-L3)

NBP2-45041-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-45041-0.1mg

HLA DQ Antibody (SPV-L3)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SPV-L3
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	60 kDa

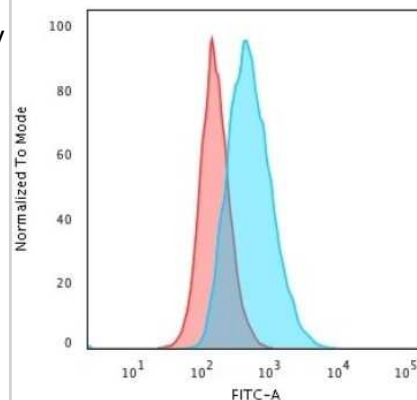
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP3-11428) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	3117
Gene Symbol	HLA-DQA1
Species	Human, Porcine
Specificity/Sensitivity	Recognizes a DQ antigen, which is a dimer of 60kDa. The class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B Lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35kDa. It is encoded by 5 exons; exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation. This monoclonal antibody strongly blocks cytotoxicity activity of T4-positive cytotoxic T cell clones.
Immunogen	T4-positive CTL clone HG-38

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunofluorescence
Recommended Dilutions	Flow Cytometry 1-2 ug/million cells, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml
Application Notes	Optimal dilution for a specific application should be determined.



Images

Flow Cytometry: HLA DQ Antibody (SPV-L3) [NBP2-45041] - Flow Cytometric Analysis of Raji cells. HLA DQ Antibody (SPV-L3) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Publications

Hall MS, Teer JK, Yu X et al. Neoantigen-specific CD4+ tumor-infiltrating lymphocytes are potent effectors identified within adoptive cell therapy products for metastatic melanoma patients *Journal for immunotherapy of cancer* 2023-10-01 [PMID: 37802604] (B/N, Human)

Liu R, Jiang W, Li Y, Mellins ED RIPPA: Identification of MHC-II Binding Peptides from Antigen Using a Yeast Display-Based Approach *Current protocols* 2022-01-01 [PMID: 35041265]

Eggenhuizen PJ, Ng BH, Chang J Et al. BCG Vaccine Derived Peptides Induce SARS-CoV-2 T Cell Cross-Reactivity *Frontiers in immunology* 2021-08-05 [PMID: 34421902]

Egan CE, Stefanova D, Ahmed A et al. CSPG4 is a Potential Therapeutic Target in Anaplastic Thyroid Cancer *Thyroid : official journal of the American Thyroid Association* 2021-06-03 [PMID: 34078123]

Diego VP, Luu BW, Hofmann M et al. Quantitative HLA-class-II/Factor VIII (FVIII) Peptidomic Variation in Dendritic Cells Correlates with the Immunogenic Potential of Therapeutic FVIII Proteins in Hemophilia A *J. Thromb. Haemost.* 2019-09-25 [PMID: 31556206]



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Products Related to NBP2-45041-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
210-TA-005	TNF-alpha [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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