BT LAB
Bioassay Technology Laboratory
Optimize Your Research

HLA-DPA1 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3755
Host	Mouse
Isotype	Mouse IgG2a
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human HLA-DPA1 (AA: 29-209) expressed in E. Coli.
Mol wt	29.3kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB,IHC,FCM
Concentration	N/A
Full name	N/A
Synonyms	DPA1;PLT1;HLADP;HLASB;DP(W3);DP(W4);HLA-DPA;HLA-DP1A;HLA-DPB1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

HLA-DPA1 belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta (DPB) chain, 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 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DP molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules.

Recommended Dilution

WB: 1:500 - 1:2000

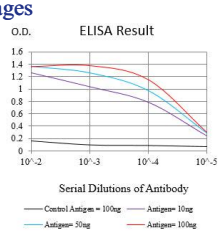
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

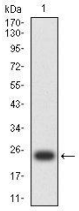
ELISA: 1:10000

Not yet tested in other applications.

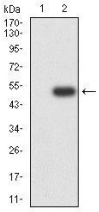
Images



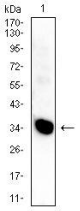
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



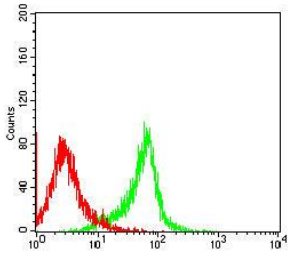
Western blot analysis using HLA-DPA1 mAb against human HLA-DPA1 (AA: 29-209) recombinant protein. (Expected MW is 23.7 kDa)



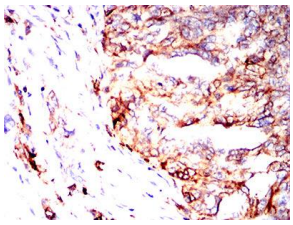
Western blot analysis using HLA-DPA1 mAb against HEK293-6e (1) and HLA-DPA1 (AA:29-209)-hIgGFc transfected HEK293-6e (2) cell lysate.



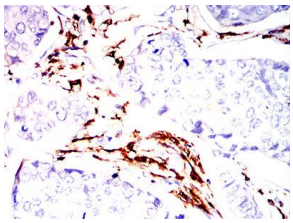
Western blot analysis using HLA-DPA1 mouse mAb against Raji(1) cell lysate.



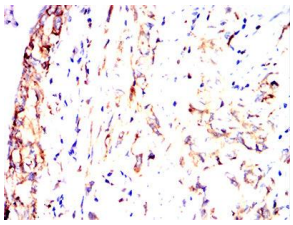
Flow cytometric analysis of Jurkat cells using HLA-DPA1 mouse mAb (green) and negative control (red).



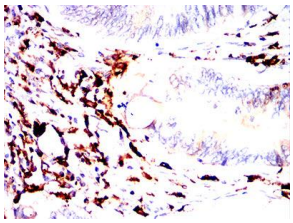
Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using HLA-DPA1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded breast cancer tissues using HLA-DPA1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded gastric cancer tissues using HLA-DPA1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectal cancer tissues using HLA-DPA1 mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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