Product Name: HLA-DPA1 Mouse Monoclonal Antibody
Catalog #: AMM82970
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	29.3kDa

Antigen Information

Gene Name	HLA-DPA1
Alternative Names	DPA1; PLT1; HLADP; HLASB; DP(W3); DP(W4); HLA-DPA; HLA-DP1A; HLA-DPB1
Gene ID	3113.0
SwissProt ID	P20036
Immunogen	Purified recombinant fragment of human HLA-DPA1 (AA: 29-209) expressed in E. Coli.

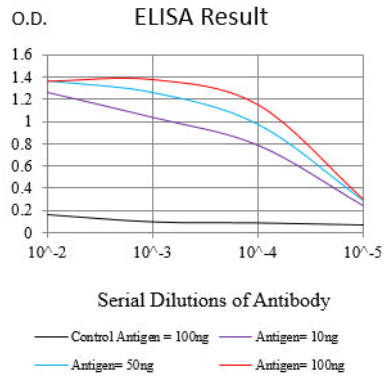
Background

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,

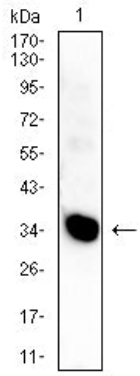
dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DP molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules.

Research Area

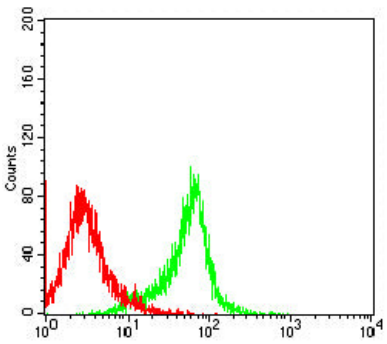
Image Data



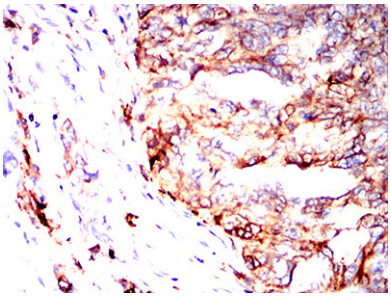
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



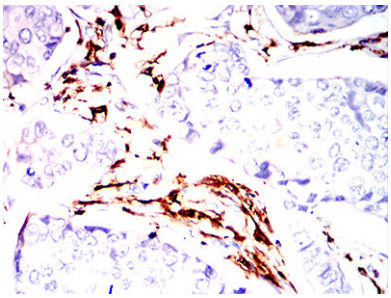
Western blot analysis using HLA-DPA1 mouse mAb against Raji(1) cell lysate.



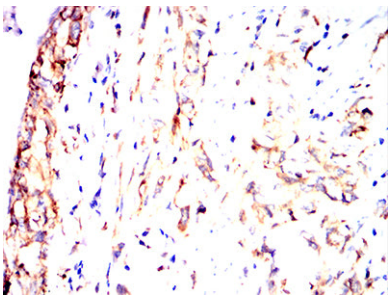
Flow cytometric analysis of Jurkat cells using HLA-DPA1 mouse mAb (green) and negative control (red).



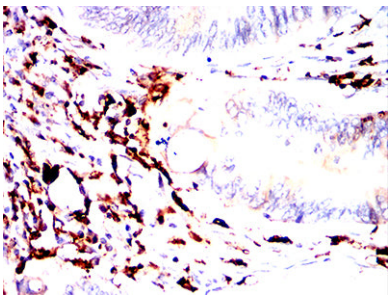
Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissues using HLA-DPA1 mouse mAb with DAB staining.



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



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



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