
Product Name: HLA-DPB1 Mouse Monoclonal Antibody**Catalog #: AMM82981**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ELISA,FC
Reactivity	Human, Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
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	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	29.2kDa

Antigen Information

Gene Name	HLA-DPB1
Alternative Names	DPB1; HLA-DP; HLA-DPB; HLA-DP1B
Gene ID	3115.0
SwissProt ID	P04440
Immunogen	Purified recombinant fragment of human HLA-DPB1 (AA: extra 30-215) expressed in E. Coli.

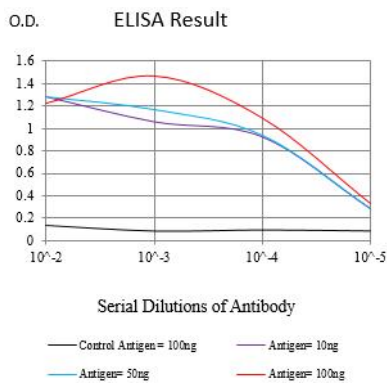
Background

HLA-DPB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta chain (DPB), 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

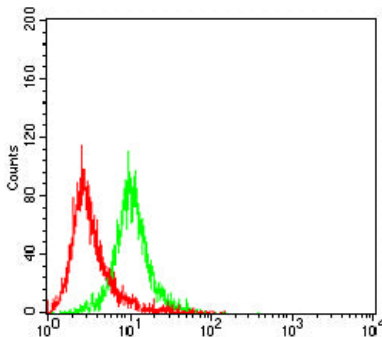
cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. Within the DP molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules.

Research Area

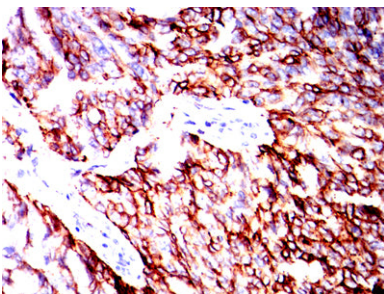
Image Data



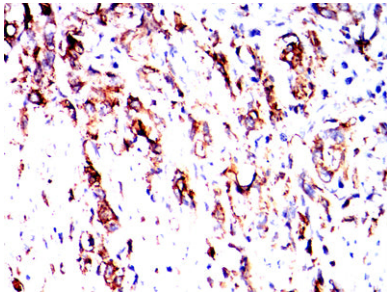
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



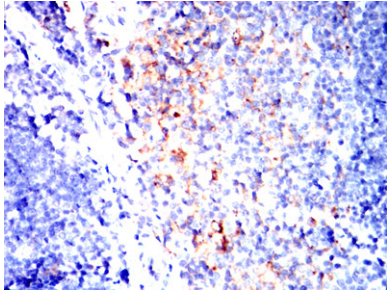
Flow cytometric analysis of RAJI cells using HLA-DPB1 mouse mAb (green) and negative control (red).



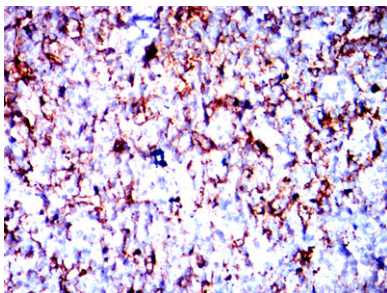
Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissues using HLA-DPB1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human gastric cancer tissues using HLA-DPB1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat thymus tissues using HLA-DPB1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit thymus tissues using HLA-DPB1 mouse mAb with DAB staining.