

---

**Product Name: HLA-DPA1 Mouse Monoclonal Antibody****Catalog #: AMM82971**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC,ELISA,FC
<b>Reactivity</b>	Human, Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG2b
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	29.3kDa

**Antigen Information**

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

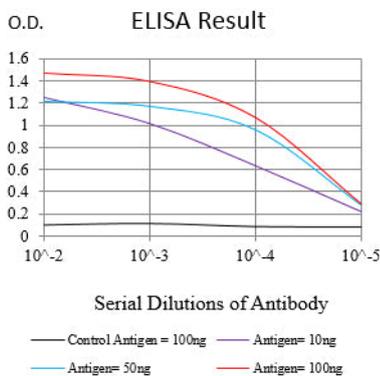
**Background**

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,

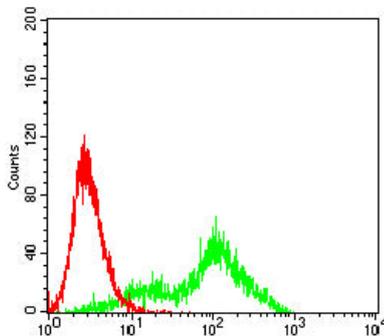
dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DP molecule both the alpha chain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

## Research Area

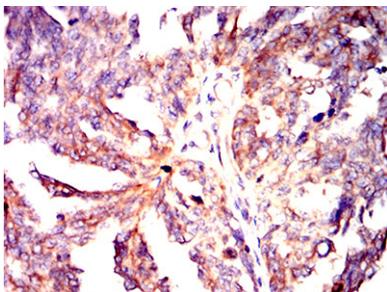
### Image Data



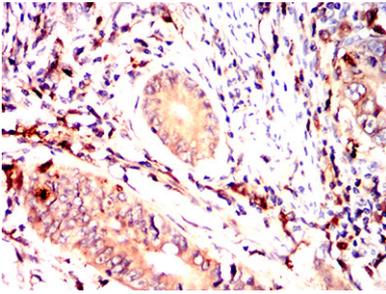
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



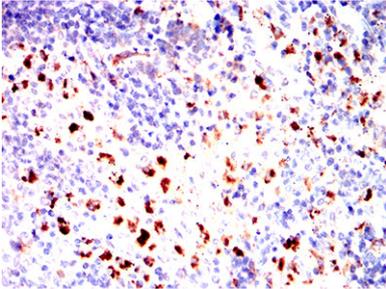
Flow cytometric analysis of Hela cells using HLA-DPA1 mouse mAb (green) and negative control (red).



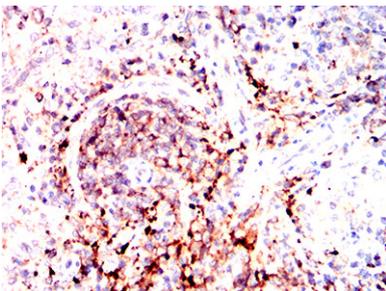
Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissues using HLA-DPA1 mouse mAb with DAB staining.



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



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



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