

## Datasheet

### HLA-DPA1 monoclonal antibody (M03), clone 1E3

**Catalog Number:** H00003113-M03

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a full-length recombinant HLA-DPA1.

**Clone Name:** 1E3

**Immunogen:** HLA-DPA1 (AAH09956, 1 a.a. ~ 260 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

```
MRPEDRMFHIRAVILRALSLAFLLSLRGAGAIKADHVST  
YAAFVQTHRPTGEFMFEFDEDEQFYVDLDDKKETVWHL  
EEFGRAFSFEAQGGLANIAILNNLNTLIQRSNHTQAA  
NDPPEVTVPKEPVELGQPNTLICHIDRFFPPVLNVTW  
LCNGEPVTEGVAESLFLPRTDYSFHKFHYLTFVPSAED  
VYDCRVEHWGLDQPLLKHWEAQEPIQMPETTETVLC  
ALGLVLGLVGIIVGTVLIIKSLRSGHDPRAQGFL
```

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, S-ELISA, WB-Re, WB-Tr  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Isotype:** IgG2a Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 3113

**Gene Symbol:** HLA-DPA1

**Gene Alias:** HLA-DP1A, HLADP, HLASB

**Gene Summary:** 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. [provided by RefSeq]