

## HLA-DMB Polyclonal Antibody

**catalog number: E-AB-52583**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

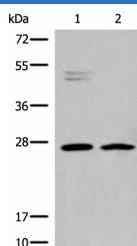
### Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	Fusion protein of human HLA-DMB
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Antigen affinity purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.

### Applications

Applications	Recommended Dilution
<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:30-1:150

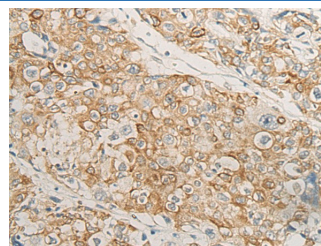
### Data



Western blot analysis of K562 and Jurkat cell lysates using HLA-DMB Polyclonal Antibody at dilution of 1:550

**Observed-MW: Refer to figures**

**Calculated-MW: 29 kDa**



Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using HLA-DMB Polyclonal Antibody at dilution of 1:40 (×200)

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### Background

HLA-DMB (Major Histocompatibility Complex, Class II, DM Beta) is a Protein Coding gene. Diseases associated with HLA-DMB include Red-Green Color Blindness and Red Color Blindness. Among its related pathways are ICos-ICosL Pathway in T-Helper Cell and CTLA4 Signaling. GO annotations related to this gene include MHC class II protein complex binding. An important paralog of this gene is ENSG00000248993. HLA-DMB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta (DMB) chain, both anchored in the membrane. It is located in intracellular vesicles. DM plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP (class II-associated invariant chain peptide) molecule from the peptide binding site. 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.

### For Research Use Only