

HLA-DO β Polyclonal Antibody

Catalog No :	YT2178
Reactivity :	Human
Applications :	WB;ELISA
Target :	HLA-DO β
Fields :	>>Phagosome;>>Cell adhesion molecules;>>Antigen processing and presentation;>>Hematopoietic cell lineage;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>Intestinal immune network for IgA production;>>Type I diabetes mellitus;>>Leishmaniasis;>>Toxoplasmosis;>>Staphylococcus aureus infection;>>Tuberculosis;>>Influenza A;>>Human T-cell leukemia virus 1 infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Asthma;>>Autoimmune thyroid disease;>>Inflammatory bowel disease;>>Systemic lupus erythematosus;>>Rheumatoid arthritis;>>Allograft rejection;>>Graft-versus-host disease;>>Viral myocarditis
Gene Name :	HLA-DOB
Protein Name :	HLA class II histocompatibility antigen DO beta chain
Human Gene Id :	3112
Human Swiss Prot No :	P13765
Immunogen :	The antiserum was produced against synthesized peptide derived from human HLA-DOB. AA range:1-50
Specificity :	HLA-DO β Polyclonal Antibody detects endogenous levels of HLA-DO β protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 30kD

Cell Pathway : Cell adhesion molecules (CAMs);Antigen processing and presentation;Intestinal immune network for IgA production;Type I diabetes mellitus;Asthma;Autoimmune thyroid disease;Systemic lupus erythematosus;

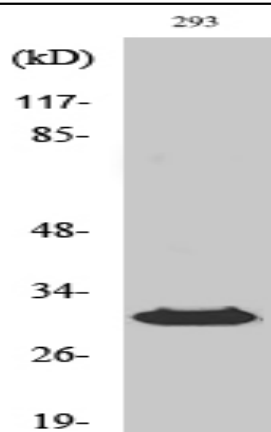
Background : HLA-DOB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. It is located in intracellular vesicles. DO suppresses peptide loading of MHC class II molecules by inhibiting HLA-DM. 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. [provided by RefSeq, Jul 2008],

Function : function:Important modulator in the HLA class II restricted antigen presentation pathway by interaction with the HLA-DM molecule.,polymorphism:The following alleles of DOB are known: DOB*0101, DOB*0102, DOB*0103 and DOB*0104. The sequence shown is that of DOB*0101.,similarity:Belongs to the MHC class II family.,similarity:Contains 1 Ig-like C1-type (immunoglobulin-like) domain.,subunit:Heterodimer of an alpha chain (DOA) and a beta chain (DOB).,

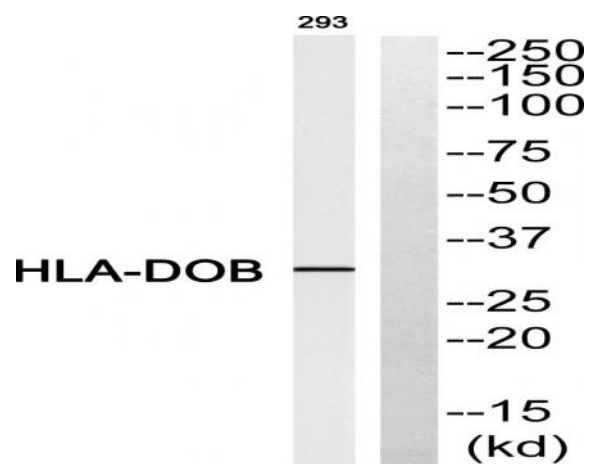
Subcellular Location : Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. Complexes with HLA-DM molecule during intracellular transport and in endosomal/lysosomal compartments. Heterotetramerization is necessary to exit the ER.

Expression : B-cell,

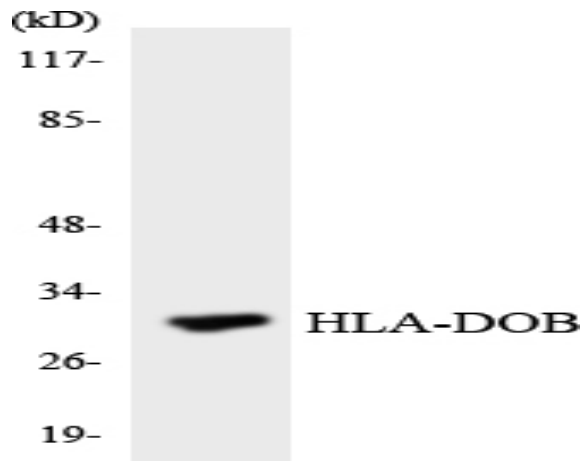
Products Images



Western Blot analysis of various cells using HLA-DO β Polyclonal Antibody diluted at 1:1000



Western blot analysis of HLA-DOB Antibody. The lane on the right is blocked with the HLA-DOB peptide.



Western blot analysis of the lysates from HeLa cells using HLA-DOB antibody.