

HLA-DOα Polyclonal Antibody

Catalog No: YT2177

Reactivity: Human

Applications: WB;IHC;IF;ELISA

Target: HLA-DOa

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-DOA

Protein Name: HLA class II histocompatibility antigen DO alpha chain

Human Gene Id: 3111

Human Swiss Prot

No:

P06340

Immunogen: The antiserum was produced against synthesized peptide derived from human

HLA-DOA. AA range:71-120

Specificity: HLA-DOa Polyclonal Antibody detects endogenous levels of HLA-DOa 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. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-



chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 34kD

Cell adhesion molecules (CAMs); Antigen processing and presentation; Intestinal **Cell Pathway:**

immune network for IgA production; Type I diabetes mellitus; Asthma; Autoimmune

thyroid disease; Systemic lupus erythematosus;

HLA-DOA belongs to the HLA class II alpha chain paralogues. HLA-DOA forms **Background:**

> a heterodimer with HLA-DOB. The heterodimer, HLA-DO, is found in lysosomes in B cells and regulates HLA-DM-mediated peptide loading on MHC class II molecules. In comparison with classical HLA class II molecules, this gene exhibits

> very little sequence variation, especially at the protein level. [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 only allele of DOA known is DOA*0101 which is shown here., 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

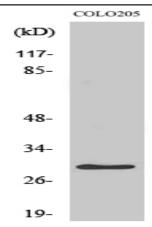
Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. Complexes with HLA-DM Location:

> molecule during intracellular transport and in endosomal/lysosomal compartments. Heterotetramerization is necessary to exit the ER.

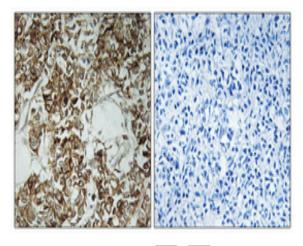
Expression: Lymph,

Products Images

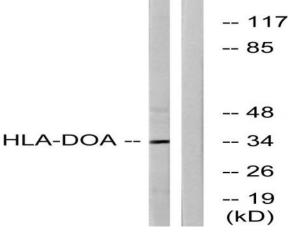
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Western Blot analysis of various cells using HLA-DO α Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). Highpressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.



Western blot analysis of lysates from COLO cells, using HLA-DOA Antibody. The lane on the right is blocked with the synthesized peptide.