

HLA-DOB Polyclonal Antibody

Catalog No. E-AB-19991

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

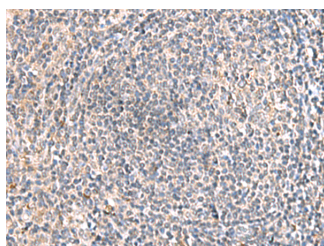
Description

Reactivity	Human
Immunogen	Synthetic peptide of human HLA-DOB
Host	Rabbit
Isotype	IgG
Purification	Antigen affinity purification
Conjugation	Unconjugated
Buffer	PBS with 0.05% NaN ₃ and 40% Glycerol, pH7.4

Applications Recommended Dilution

IHC	1:40-1:200
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Data



Immunohistochemistry of paraffin-embedded Human tonsil tissue using HLA-DOB Polyclonal Antibody at dilution of 1:45(×200)

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

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. HLA-DOB (Major Histocompatibility Complex, Class II, DO Beta) is a Protein Coding gene. 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 and MHC class II receptor activity. An important paralog of this gene is HLA-DRB1.

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