



Rabbit Anti-HLA DOB antibody

SL17540R

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| Product Name: | HLA DOB |
| Chinese Name: | 组织相容性抗原DOB抗体 |
| Alias: | DO beta chain; DOB; DOB_HUMAN; HLA class II histocompatibility antigen; HLA class II histocompatibility antigen DO beta chain; HLA-DOB; Major histocompatibility complex class II DO beta; Major histocompatibility complex class II DO beta chain; MHC class II antigen DOB. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human, |
| Applications: | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 28kDa |
| Cellular localization: | The cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human HLA DOB:101-200/273<Extracellular> |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | 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:

Important modulator in the HLA class II restricted antigen presentation pathway by interaction with the HLA-DM molecule in B cells. Modifies peptide exchange activity of HLA-DM.

Subcellular Location:

Endosome membrane. Lysosome membrane. Complexes with HLA-DM molecule during intracellular transport and in endosomal/lysosomal compartments. Heterotetramerization is necessary to exit the ER.

Similarity:

Belongs to the MHC class II family.
Contains 1 Ig-like C1-type (immunoglobulin-like) domain.

SWISS:

P13765

Gene ID:

3112

Database links:

[Entrez Gene: 607786](#) Dog

[Entrez Gene: 3112](#) Human

[Omim: 600629](#) Human

[SwissProt: P13765](#) Human

[Unigene: 1802](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.