

## Rabbit anti-Human HLA-DOB Polyclonal Antibody | anti-HLA-DOB antibody

HLA-DOB Polyclonal Antibody

|                               |                       |                            |                                                                  |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA174969</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

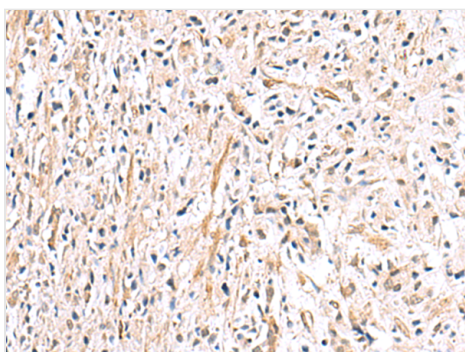
### PRODUCT SYNONYMS

HLA-DOB; Polyclonal Antibody; HLA-DOB Polyclonal Antibody; HLA class II histocompatibility antigen; DO beta chain; MHC class II antigen DOB; anti-HLA-DOB antibody

### PRODUCT SPECIFICATIONS

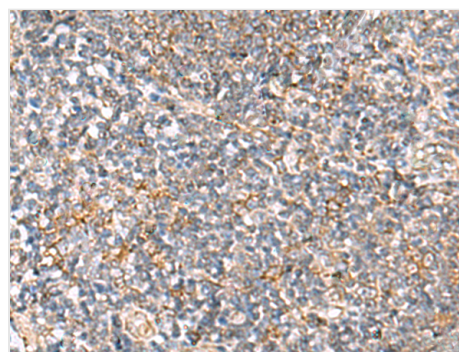
|                                                   |                                                         |
|---------------------------------------------------|---------------------------------------------------------|
| Host                                              | Rabbit                                                  |
| Reactivity                                        | Human                                                   |
| Clonality                                         | Polyclonal                                              |
| Isotype                                           | IgG                                                     |
| Purity/Purification                               | Antigen Affinity Purification                           |
| Form/Format                                       | PBS with 0.05% NaN <sub>3</sub> and 40% Glycerol, pH7.4 |
| Concentration                                     | 1.2mg/mL (varies by lot)                                |
| Sequence Length                                   | 273                                                     |
| Applicable Applications for anti-HLA-DOB antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)    |
| Immunogen                                         | Synthetic peptide of human HLA-DOB                      |
| Conjugation                                       | Unconjugated                                            |
| Preparation and Storage                           | Store at -20 degree C. Avoid freeze/thaw cycles.        |

### IMAGES



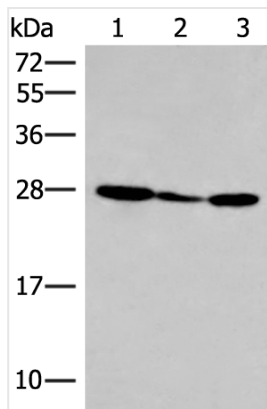
**IHC (Immunohistochemistry)**

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



**IHC (Immunohistochemistry)**

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



**WB (Western Blot)**  
Western blot analysis of 293T cell lysate using HLA-DOB Polyclonal Antibody at dilution of 1:400

### ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-HLA-DOB antibody | 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. |
| Product Categories/Family for anti-HLA-DOB antibody   | Immunology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 4504403                                                |
| NCBI GeneID                      | 3112                                                   |
| NCBI Accession #                 | NP_002111.1                                            |
| NCBI GenBank Nucleotide #        | NP_002111.1                                            |
| UniProt Accession #              | P13765                                                 |
| Molecular Weight                 | 31 kDa                                                 |
| NCBI Official Full Name          | HLA class II histocompatibility antigen, DO beta chain |
| NCBI Official Synonym Full Names | major histocompatibility complex, class II, DO beta    |
| NCBI Official Symbol             | HLA-DOB                                                |
| NCBI Official Synonym Symbols    | DOB; HLA_DOB                                           |
| NCBI Protein Information         | HLA class II histocompatibility antigen, DO beta chain |
| UniProt Protein Name             | HLA class II histocompatibility antigen, DO beta chain |
| UniProt Gene Name                | <b>HLA-DOB</b>                                         |
| UniProt Entry Name               | DOB_HUMAN                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

