

## Rabbit anti-Human HLA class II histocompatibility antigen, DP beta 1 chain Polyclonal Antibody

Rabbit anti-human HLA class II histocompatibility antigen, DP beta 1 chain polyclonal Antibody, FITC

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS |
|-----------|--------|------------|--------------|
| AAA119307 | Rabbit | Human      | ELISA        |

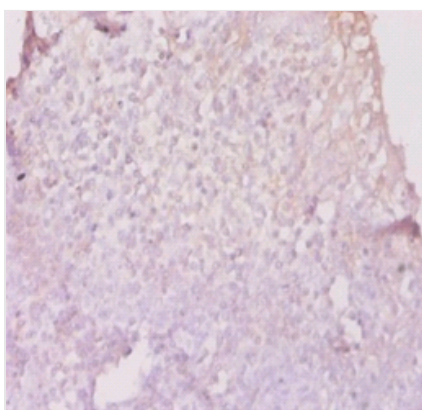
### PRODUCT SYNONYMS

HLA class II histocompatibility antigen; DP beta 1 chain; Polyclonal Antibody; Rabbit anti-human HLA class II histocompatibility antigen; DP beta 1 chain polyclonal Antibody; FITC; DP(W4) beta chain; MHC class II antigen DPB1; HLA-DPB1; HLA-DP1B; anti-HLA class II histocompatibility antigen; DP beta 1 chain antibody

### PRODUCT SPECIFICATIONS

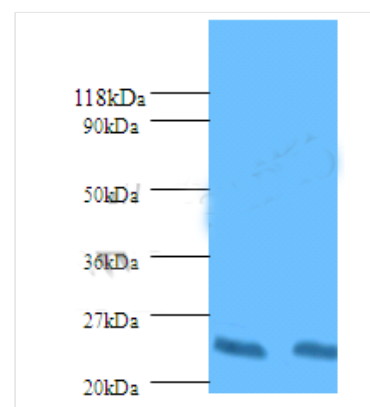
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| Host                                                                                               | Rabbit                                                                                                         |
| Reactivity                                                                                         | Human                                                                                                          |
| Clonality                                                                                          | Polyclonal                                                                                                     |
| Isotype                                                                                            | IgG                                                                                                            |
| Purity/Purification                                                                                | Caprylic Acid Ammonium Sulfate Precipitation Purified                                                          |
| Applicable Applications for anti-HLA class II histocompatibility antigen, DP beta 1 chain antibody | ELISA                                                                                                          |
| Storage Buffer                                                                                     | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                               |
| Conjugate                                                                                          | FITC                                                                                                           |
| Immunogen                                                                                          | Recombinant human HLA class II histocompatibility antigen, DP beta 1 chain protein                             |
| Preparation and Storage                                                                            | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |

### IMAGES



**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human tonsil at dilution of 1:50



**WB (Western Blot)**

All lanes: HLA class II histocompatibility antigen, DP beta 1 chain antibody at 2ug/ml Lane 1: sw1990 whole cell lysate Lane 2: HGC-27 whole cell lysate Secondary Goat polyclonal to Rabbit IgG at 1/10000 dilution Predicted band size: 26kDa Observed band

ADDITIONAL INFORMATION

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| <b>Related Product Information for anti-HLA class II histocompatibility antigen, DP beta 1 chain antibody</b> | <p>Binds peptides derived from antigens that access the endocytic route of antigen presenting cells (APC) and presents them on the cell surface for recognition by the CD4 T-cells. The peptide binding cleft accommodates peptides of 10-30 residues. The peptides presented by MHC class II molecules are generated mostly by degradation of proteins that access the endocytic route, where they are processed by lysosomal proteases and other hydrolases. Exogenous antigens that have been endocytosed by the APC are thus readily available for presentation via MHC II molecules, and for this reason this antigen presentation pathway is usually referred to as exogenous. As membrane proteins on their way to degradation in lysosomes as part of their normal turn-over are also contained in the endosomal/lysosomal compartments, exogenous antigens must compete with those derived from endogenous components. Autophagy is also a source of endogenous peptides, autophagosomes constitutively fuse with MHC class II loading compartments. In addition to APCs, other cells of the gastrointestinal tract, such as epithelial cells, express MHC class II molecules and CD74 and act as APCs, which is an unusual trait of the GI tract. To produce a MHC class II molecule that presents an antigen, three MHC class II molecules (heterodimers of an alpha and a beta chain) associate with a CD74 trimer in the ER to form a heterononamer. Soon after the entry of this complex into the endosomal/lysosomal system where antigen processing occurs, CD74 undergoes a sequential degradation by various proteases, including CTSS and CTSL, leaving a small fragment termed CLIP (class-II-associated invariant chain peptide). The removal of CLIP is facilitated by HLA-DM via direct binding to the alpha-beta-CLIP complex so that CLIP is released. HLA-DM stabilizes MHC class II molecules until primary high affinity antigenic peptides are bound. The MHC II molecule bound to a peptide is then transported to the cell membrane surface. In B-cells, the interaction between HLA-DM and MHC class II molecules is regulated by HLA-DO. Primary dendritic cells (DCs) also to express HLA-DO. Lysosomal microenvironment has been implicated in the regulation of antigen loading into MHC II molecules, increased acidification produces increased proteolysis and efficient peptide loading.</p> |
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**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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hla-class-ii-histocompatibility-antigen-dp-beta-1-chain-antibody-elisa/119307>