

## Recombinant Human HLA DRB1-14 beta

### Source

|                         |              |
|-------------------------|--------------|
| <b>Species</b>          | Human        |
| <b>Accession Number</b> | Q9GIY3       |
| <b>Gene Symbol</b>      | HLA-DRB1     |
| <b>Expressed Region</b> | Gly30-Lys227 |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Synonyms</b> | HLA DRB1-14 beta, Major Histocompatibility Complex, Class II, DR Beta 1, DW2.2/DR2.2, DRw10, HLA Class II Histocompatibility Antigen, DR-1 Beta Chain, MHC Class II HLA-DR-Beta Cell Surface Glycoprotein, MHC Class II HLA-DR Beta 1 Chain, Human Leucocyte Antigen DRB1, MHC Class II Antigen DRB1*10, MHC Class II Antigen DRB1*11, MHC Class II Antigen DRB1*12, MHC Class II Antigen DRB1*13, MHC Class II Antigen DRB1*14, MHC Class II Antigen DRB1*15, MHC Class II Antigen DRB1*16, MHC Class II HLA-DRw10-Beta, MHC Class II Antigen DRB1*1, MHC Class II Antigen DRB1*3, MHC Class II Antigen DRB1*4, MHC Class II Antigen DRB1*7, MHC Class II Antigen DRB1*8, MHC Class II Antigen DRB1*9, Lymphocyte Antigen DRB1, MHC Class II Antigen, Clone P2-Beta-3, HLA-DR1B, HLA-DRB2, HLA-DRB, DR-12, DR-13, DR-14, DR-16, DRw11, DRB1, DR-1, DR-4, DR-5, DR-7, DR-8, DR-9, DR12, DR13, DR14, DR16, DRw8, DR5, DR4, SS1, DR1, DR7, DR8, DR9 |
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### Preparation

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| <b>Expression System</b> | Human Embryonic Kidney 293 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tag</b>               | N-terminal 6x histidine tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purification</b>      | Unpurified cell lysate. HEK293 cells transfected with expression vectors harboring target gene were harvested and washed with PBS twice. The cell pastes were re-suspended with ice-cold PBS containing mammalian cell protease inhibitor cocktail and further lysed with freeze-thaw cycles. After clarifying with 20,000 g centrifugation at 4°C for 30 min, the lysate was aliquoted, lyophilized, and stored at -80°C immediately. Protein concentration was determined by BCA kit (Thermo Scientific, Inc.) using BSA as protein standard. The gene overexpression in lysate was confirmed by Western blotting using anti-His tag antibody and/or target-specific antibodies and the lysate derived from HEK293 cells transfected with the empty expression vector was used as a negative control. |
| <b>Molecular Weight</b>  | Recombinant Human HLA DRB1-14 beta has a calculated molecular mass of 23 kDa. The actual molecular weight may increase slightly due to the potential post-modifications (PTMs).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### Protein Specifications

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Format</b>         | Lyophilized powder                                                                                                                                            |
| <b>Formulation</b>    | Lyophilized from a 0.2 ?m filtered solution in PBS containing mammalian cell protease inhibitor cocktail                                                      |
| <b>Concentration</b>  | Determined by Pierce BCA protein assay kit                                                                                                                    |
| <b>Preservative</b>   | None                                                                                                                                                          |
| <b>Reconstitution</b> | Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1 mg/mL with sterile deionized water. |

## Shipping

Ice packs. Including one vial of HEK293 cell lysate transfected with empty expression vector.

## Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20 °C. For long term storage, it is recommended to make appropriate aliquots and store at -80 °C. Avoid repeated freeze-thaw cycles.

This product is furnished for **LABORATORY RESEARCH USE ONLY**.

Not for diagnostic or therapeutic use.