





## **HLA-DRB4** Antibody

<b>Product Code</b>	CSB-PA03909A0Rb
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P13762
Immunogen	Recombinant Human HLA class II histocompatibility antigen, DR beta 4 chain protein (30-227AA)
Raised In	Rabbit
Species Reactivity	Human
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:2000, IHC:1:20-1:200
Relevance	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 cl
Form	Liquid
Conjugate	Non-conjugated











Preservative: 0.03% Proclin 300 **Storage Buffer** 

Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

**Purification Method** >95%, Protein G purified

**IgG** Isotype

**Clonality** Polyclonal

**Alias** HLA class II histocompatibility antigen, DR beta 4 chain (MHC class II antigen

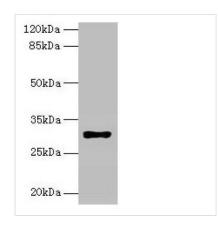
DRB4), HLA-DRB4

**Species** Human

Research Area **Immunology** 

**HLA-DRB4 Target Names** 

**Image** 



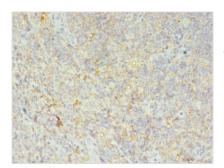
Western blot

All lanes: HLA-DRB4 antibody at 2µg/ml + Raji

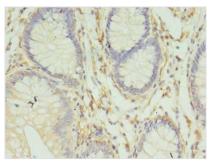
whole cell lysate Secondary

Goat polyclonal to rabbit IgG at 1/10000 dilution

Predicted band size: 30 kDa Observed band size: 30 kDa



Immunohistochemistry of paraffin-embedded human tonsil tissue using CSB-PA03909A0Rb at dilution of 1:100



Immunohistochemistry of paraffin-embedded human colon cancer using CSB-PA03909A0Rb at dilution of 1:100