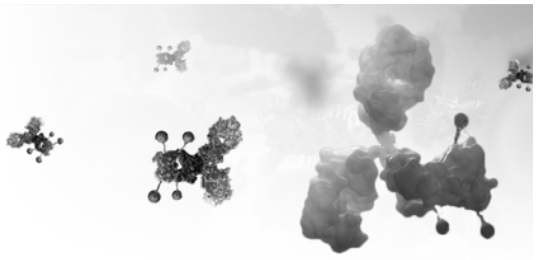

Anti-HLA-DRB1 (N-terminal) polyclonal antibody (CPBT-36838RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human HLA-DRB1.
Antigen Description	HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa. It is encoded by 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. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Hundreds of DRB1 alleles have been described and typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. DRB1 is expressed at a level five times higher than its paralogs DRB3, DRB4 and DRB5. DRB1 is present in all individuals. Allelic variants of DRB1 are linked with either none or one of the genes DRB3, DRB4 and DRB5. There are 4 related pseudogenes: DRB2, DRB6, DRB7, DRB8 and DRB9.
Immunogen	KLH conjugated synthetic peptide selected from the N terminal region of Human HLA DRB1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, ELISA

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Cellular Localization	Membrane; Single-pass type I membrane protein
Format	Liquid
Size	100 µg
Buffer	Preservative: 0.09% Sodium AzideConstituents: PBS
Preservative	0.09% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	HLA-DRB1 major histocompatibility complex, class II, DR beta 1 [Homo sapiens]
Official Symbol	HLA-DRB1
Synonyms	HLA-DRB1; major histocompatibility complex, class II, DR beta 1; HLA DR1B; DRB1; DRw10; FLJ75017; FLJ76359; HLA DR1B; HLA DRB; Major histocompatibility complex class II DR beta 1; SS1; DW2.2/DR2.2; MHC class II antigen; lymphocyte antigen DRB1; MHC class II HLA-DRw10-beta; human leucocyte antigen DRB1; MHC class II HLA-DR beta 1 chain; MHC class II HLA-DR-beta cell surface glycoprotein; HLA class II histocompatibility antigen, DR-1 beta chain; SS1; DRB1; DRw10; HLA-DRB; HLA-DR1B;
Entrez Gene ID	3123
Protein Refseq	NP_001230894
UniProt ID	P01912
Chromosome Location	6p21.3
Pathway	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CXCR4-mediated signaling events, organism-specific biosyste
Function	MHC class II receptor activity; MHC class II receptor activity;

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