

# Recombinant Human HLA-DRB4

Catalog No: #GP13131



Package Size: #GP13131-1 100ug

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## Description

Product Name	Recombinant Human HLA-DRB4
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 30-266 amino acids of human HLA-DRB4
Target Name	major histocompatibility complex, class II, DR beta 4
Other Names	DR4; DRB4; HLA-DR4B
Accession No.	Swissprot:P13762Gene Accession:BC005312
Uniprot	P13762
GeneID	3126;
Storage	-20~-80°C, pH 7.6 PBS

## Background

HLA-DRB4 belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DRA) and a beta (DRB) chain, 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 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. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. DRB1 is expressed at a level five times higher than its paralogues DRB3, DRB4 and DRB5. The presence of DRB4 is linked with allelic variants of DRB1, otherwise it is omitted. There are 4 related pseudogenes: DRB2, DRB6, DRB7, DRB8 and DRB9.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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