

# Recombinant Human HLA-DQB1

Catalog No: #GP13127



Package Size: #GP13127-1 100ug

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Recombinant Human HLA-DQB1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 33-261 amino acids of human HLA-DQB1
Target Name	major histocompatibility complex, class II, DQ beta 1
Other Names	IDDM1; CELIAC1; HLA-DQB
Accession No.	Swissprot:P01920Gene Accession:BC012106
Uniprot	P01920
GeneID	3119;
Storage	-20~-80°C, pH 7.6 PBS

## Background

HLA-DQB1 belongs to the HLA class II beta chain paralogs. This class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), 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 it contains six exons. Exon 1 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 DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation. Alternative splicing results in multiple transcript variants.

## 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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