

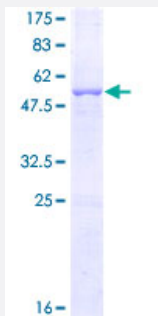
Full-Length

HLA-DRB3 (Human) Recombinant Protein (P01)

Catalog # H00003125-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HLA-DRB3 full-length ORF (AAH08987.1, 1 a.a. - 266 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MVCLKLPGGSSLAALTVTLMVLSSRLAFAGDTRPRFLELRKSECHFFNGTERVRYLDRYFHNQEE
FLRFDSDVGEYRAVTELGRPVAESWNSQKDLLEQKRGRVDNYCRHNYGVGESFTVQRRVHPQV
TVYPAKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKAGVVSTGLIQNGDWTFQTLVMLETV
PRSGEVYTCQVEHPSVTSALTVEWRARSESAQSKMLSGVGGFVLGLLFLGAGLFYFRNQKGHS
GLQPTGFLS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

55

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HLA-DRB3

Entrez GeneID [3125](#)

GeneBank Accession# [BC008987](#)

Protein Accession# [AAH08987.1](#)

Gene Name HLA-DRB3

Gene Alias HLA-DR3B, MGC117330

Gene Description major histocompatibility complex, class II, DR beta 3

Gene Ontology [Hyperlink](#)

Gene Summary

HLA-DRB3 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 DRB3 is linked with allelic variants of DRB1, otherwise it is omitted. There are 4 related pseudogenes: DRB2, DRB6, DRB7, DRB8 and DRB9. [provided by RefSeq]

Other Designations MHC class II HLA-DR beta 3 chain|MHC class II antigen DR beta 3 chain|human leucocyte antigen DRB3

Pathway

- [Allograft rejection](#)
- [Antigen processing and presentation](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Graft-versus-host disease](#)
- [Hematopoietic cell lineage](#)
- [Systemic lupus erythematosus](#)
- [Type I diabetes mellitus](#)

Disease

- [Abortion](#)
- [Abruptio Placentae](#)
- [Alveolar Bone Loss](#)
- [Aortic Aneurysm](#)
- [Arthritis](#)
- [Autoimmune Diseases](#)
- [Blood Group Incompatibility](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cataplexy](#)
- [Chronic Disease](#)
- [Churg-Strauss Syndrome](#)

- [Dementia](#)
- [Diabetes](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Gingival Hemorrhage](#)
- [Glioma](#)
- [Graft vs Host Disease](#)
- [Hallucinations](#)
- [Hematologic Neoplasms](#)
- [Hepatitis](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Inflammation](#)
- [Lambert-Eaton Myasthenic Syndrome](#)
- [Latex Hypersensitivity](#)
- [Leukemia](#)
- [Lewy Body Disease](#)
- [Liver Cirrhosis](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Myositis](#)
- [Narcolepsy](#)
- [Occupational Diseases](#)
- [Periodontal Attachment Loss](#)
- [Periodontitis](#)

- [Pityriasis Rosea](#)
- [Pregnancy Complications](#)
- [Psoriasis](#)
- [Purpura](#)
- [Recurrence](#)
- [Rheumatic Heart Disease](#)
- [Sarcoidosis](#)
- [Sarcoma](#)
- [Scleroderma](#)
- [Spinal Dysraphism](#)
- [Thrombocytopenia](#)
- [Tuberculosis](#)