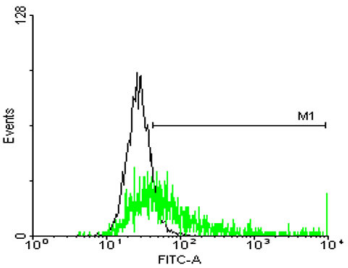
MaxPab®

# HLA-DRB3 purified MaxPab mouse polyclonal antibody (B02P)

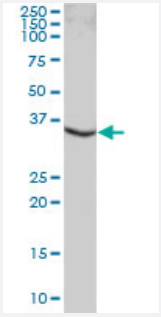
Catalog # H00003125-B02P Size 50 ug

## Applications



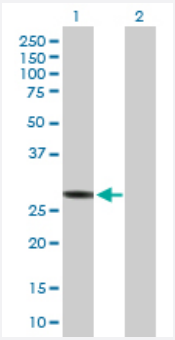

### Flow Cytometry

FACS analysis of negative control 293 cells (Black) and HLA-DRB3 expressing 293 cells (Green) using HLA-DRB3 purified MaxPab mouse polyclonal antibody.




### Western Blot (Tissue lysate)

HLA-DRB3 MaxPab polyclonal antibody. Western Blot analysis of HLA-DRB3 expression in human liver.




### Western Blot (Transfected lysate)

Western Blot analysis of HLA-DRB3 expression in transfected 293T cell line (H00003125-T01) by HLA-DRB3 MaxPab polyclonal antibody.

Lane 1: HLA-DRB3 transfected lysate(29.26 KDa).
Lane 2: Non-transfected lysate.

## Specification

| | |
|---|---|
| **Product Description** | Mouse polyclonal antibody raised against a full-length human HLA-DRB3 protein. |

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| | |
|---|---|
| **Immunogen** | HLA-DRB3 (NP_072049.2, 1 a.a. ~ 266 a.a) full-length human protein. |
| **Sequence** | MVCLKLPGGSSLAALTVTLMVLSSRLAFAGDTRPRFLELRKSECHFFNGTERVRYLDRYFHNQEE FLRFDSDVGEYRAVTELGRPVAESWNSQKDLLEQKRGRVDNYCRHNYGVGESFTVQRRVHPQV TVYPAKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQEEKAGVVSTGLIQNGDWTFQTLVMLETV PRSGEVYTCQVEHPSVTSALTVEWRARSESAQSKMLSGVGGFVLGLLFLGAGLFIYFRNQKGHS GLQPTGFLS |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Quality Control Testing** | Antibody reactive against mammalian transfected lysate. |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Flow Cytometry

  FACS analysis of negative control 293 cells (Black) and HLA-DRB3 expressing 293 cells (Green) using HLA-DRB3 purified MaxPab mouse polyclonal antibody.

- Western Blot (Tissue lysate)

  HLA-DRB3 MaxPab polyclonal antibody. Western Blot analysis of HLA-DRB3 expression in human liver.

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of HLA-DRB3 expression in transfected 293T cell line (H00003125-T01) by HLA-DRB3 MaxPab polyclonal antibody.

  Lane 1: HLA-DRB3 transfected lysate(29.26 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

## Gene Info — HLA-DRB3

| | |
|---|---|
| **Entrez GeneID** | 3125 |
| **GeneBank Accession#** | NM_022555 |
| **Protein Accession#** | NP_072049.2 |

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| | |
|---|---|
| **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 |

## Publication Reference

- SV-BR-1-GM, a Clinically Effective GM-CSF-Secreting Breast Cancer Cell Line, Expresses an Immune Signature and Directly Activates CD4+ T Lymphocytes.

  Lacher MD, Bauer G, Fury B, Graeve S, Fledderman EL, Petrie TD, Coleal-Bergum DP, Hackett T, Perotti NH, Kong YY, Kwok WW, Wagner JP, Wiseman CL, Williams WV.

  Frontiers in Immunology 2018 May; 9:776.

  Application: Flow Cyt, Human, SV-BR-1-GM cells

## Pathway

- Allograft rejection
- Antigen processing and presentation
- Asthma
- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- Graft-versus-host disease

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- 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

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- 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

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- Sarcoidosis
- Sarcoma
- Scleroderma
- Spinal Dysraphism
- Thrombocytopenia
- Tuberculosis

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