

Datasheet

HLA-DRB1 purified MaxPab mouse polyclonal antibody (B02P)

Catalog Number: H00003123-B02P

Regulatory Status: For research use only (RUO)

Product Description: Mouse polyclonal antibody raised against a full-length human HLA-DRB1 protein.

Immunogen: HLA-DRB1 (AAH33827.1, 1 a.a. ~ 266 a.a) full-length human protein.

Sequence:

MVCLKLPGGSCMTALTVTLMVLSSPLALSGDTRPRFL
WQPKRECHFFNGTERVRFLDRYFYNQEESVRFSDV
GEFRAVTELGPRDAEYWNSQKDILEQARAADVITYCRH
NYGVVESFTVQRRVQPKVTYVPSKTQPLQHNNLLVCS
VSGFYPGSIEVRWFLNGQEEKAGMVSTGLIQNGDWT
FQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRAR
SESAQSKMLSGVGGFVLGLLFLGAGLFIYFRNQKGHS
GLQPTGFLS

Host: Mouse

Reactivity: Human

Applications: WB-Ti, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3123

Gene Symbol: HLA-DRB1

Gene Alias: DRB1, FLJ76359, HLA-DR1B, HLA-DRB, HLA-DRB1*, SS1

Gene Summary: 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. [provided by RefSeq]

References:

1. DRB1*15 Allele Is a Risk Factor for PR3-ANCA Disease in African Americans. Cao Y, Schmitz JL, Yang J, Hogan SL, Bunch D, Hu Y, Jennette CE, Berg EA, Arnett FC Jr, Jennette JC, Falk RJ, Preston GA. J Am Soc Nephrol. 2011 Jun;22(6):1161-7. Epub 2011 May 26.