

HLA-DR/HLA DRB1 Rabbit pAb

Catalog # AP96185

Product Information

Application	WB
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26 kDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HLA-DR/HLA DRB1
Epitope Specificity	26-100/224
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane 3 Publications; Single-pass type I membrane protein Endoplasmic reticulum membrane 1 Publication; Single-pass type I membrane protein Lysosome membrane 2 Publications; Single-pass type I membrane protein Late endosome membrane 2 Publications; Single-pass type I membrane protein Autolysosome membrane
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. 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 some alleles have increased frequencies associated with certain diseases or conditions. For example, DRB1*1302 has been related to acute and chronic hepatitis B virus persistence. There are multiple pseudogenes of this gene. [provided by RefSeq, Jul 2020]

Additional Information

Gene ID	3123
Other Names	DRB1; HLA-DR1B; HLA-DRB; SS1; major histocompatibility complex, class II, DR beta 1
Target/Specificity	Expressed in professional APCs: monocyte/macrophages, dendritic cells and B

cells (at protein level)Expressed in thymic epithelial cells (at protein level)

Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	HLA-DR/HLA DRB1 Rabbit pAb
Function	A beta chain of antigen-presenting major histocompatibility complex class II (MHCII) molecule. In complex with the alpha chain HLA-DRA, displays antigenic peptides on professional antigen presenting cells (APCs) for recognition by alpha-beta T cell receptor (TCR) on HLA-DRB1-restricted CD4-positive T cells. This guides antigen-specific T-helper effector functions, both antibody-mediated immune response and macrophage activation, to ultimately eliminate the infectious agents and transformed cells

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