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Datasheet for ABIN7155608

anti-HLA-DRB3 antibody (AA 111-227) (HRP)

Overview

Quantity:	100 µg
Target:	HLA-DRB3
Binding Specificity:	AA 111-227
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HLA-DRB3 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human HLA class II histocompatibility antigen, DR beta 3 chain protein (111-227AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	HLA-DRB3
Alternative Name:	HLA-DRB3 (HLA-DRB3 Products)
Background:	Background: Binds peptides derived from antigens that access the endocytic route of antigen

presenting cells (APC) and presents them on the cell surface for recognition by the CD4 T-cells. The peptide binding cleft accommodates peptides of 10-30 residues. The peptides presented by MHC class II molecules are generated mostly by degradation of proteins that access the endocytic route, where they are processed by lysosomal proteases and other hydrolases. Exogenous antigens that have been endocytosed by the APC are thus readily available for presentation via MHC II molecules, and for this reason this antigen presentation pathway is usually referred to as exogenous. As membrane proteins on their way to degradation in lysosomes as part of their normal turn-over are also contained in the endosomal/lysosomal compartments, exogenous antigens must compete with those derived from endogenous components. Autophagy is also a source of endogenous peptides, autophagosomes constitutively fuse with MHC class II loading compartments. In addition to APCs, other cells of the gastrointestinal tract, such as epithelial cells, express MHC class II molecules and CD74 and act as APCs, which is an unusual trait of the GI tract. To produce a MHC class II molecule that presents an antigen, three MHC class II molecules (heterodimers of an alpha and a beta chain) associate with a CD74 trimer in the ER to form a heterononamer. Soon after the entry of this complex into the endosomal/lysosomal system where antigen processing occurs, CD74 undergoes a sequential degradation by various proteases, including CTSS and CTSL, leaving a small fragment termed CLIP (class-II-associated invariant chain peptide). The removal of CLIP is facilitated by HLA-DM via direct binding to the alpha-beta-CLIP complex so that CLIP is released. HLA-DM stabilizes MHC class II molecules until primary high affinity antigenic peptides are bound. The MHC II molecule bound to a peptide is then transported to the cell membrane surface. In B-cells, the interaction between HLA-DM and MHC class II molecules is regulated by HLA-DO. Primary dendritic cells (DCs) also to express HLA-DO. Lysosomal microenvironment has been implicated in the regulation of antigen loading into MHC II molecules, increased acidification produces increased proteolysis and efficient peptide loading. Aliases: DR beta 3 chain antibody, DR7 antibody, DRB3_HUMAN antibody, HLA class II histocompatibility antigen antibody, HLA class II histocompatibility antigen DR beta 3 chain antibody, HLA class II histocompatibility antigen DRB1 7 beta chain antibody, HLA DR3B antibody, HLA-DRB3 antibody, Human leucocyte antigen DRB3 antibody, Major histocompatibility complex class II DR beta 3 antibody, MGC117330 antibody, MHC class II antigen DR beta 3 chain antibody, MHC class II antigen DRB3 antibody, MHC class II HLA DR beta 3 chain antibody

UniProt: [P79483](#)

Pathways: [TCR Signaling](#), [Positive Regulation of Peptide Hormone Secretion](#), [Production of Molecular Mediator of Immune Response](#), [Cancer Immune Checkpoints](#), [Human Leukocyte Antigen \(HLA\)](#)

Target Details

in Adaptive Immune Response

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
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Preservative:	ProClin
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Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C,-80 °C
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Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
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