

HLA-DQA2 Rabbit pAb

CatalogNo: YN7759

Key Features

Host Species • Rabbit	Reactivity • Human	Applications WB
MW • 28kD (Calculated)	Isotype • IgG	

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human HLA-DQA2
Specificity	This antibody detects endogenous levels of HLA-DQA2 at Human

Target Information

Gene name HLA-DQA2 HLA-DXA

Protein Name	HLA class II histocompatibility antigen, DQ alpha 2 chain (DX alpha chain) (HLA class II histocompatibility antigen, DQ(6) alpha chain) (HLA-DQA1) (MHC class II DQA2)			
	Organism	Gene ID	UniProt ID	
	Human	<u>3118;</u>	<u>P01906;</u>	
Cellular Localization	Cell membrane ; Single-pass type I m Single-pass type I membrane protein Single-pass type I membrane protein protein . Lysosome membrane ; Singl complex transits through a number o until it reaches the cell membrane for	. Golgi apparatus, trans-Golgi . Endosome membrane ; Sing e-pass type I membrane prote f intracellular compartments in	network membrane ; le-pass type I membrane ein . The MHC class II	
Tissue specificity	Restricted to skin Langerhans cells, a the surface of B lymphoblastoid cells.		w levels may occur at	
Function	Binds peptides derived from antigens that access the endocytic route of antigen presentin 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 b 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 i 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/lysosoma 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-DO. 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 acidificatio produces increased proteolysis and		w the CD4 T-cells. The the peptides presented by teins that access the and other hydrolases. The readily available for presentation pathway is vay to degradation in the endosomal/lysosomal ved from endogenous autophagosomes tion to APCs, other cells lass II molecules and produce a MHC class II eterodimers of an alpha heterononamer. Soon m where antigen arious proteases, ass-II-associated DM via direct binding to filizes MHC class II The MHC II molecule te. In B-cells, the ed by HLA-DO. Primary ronment has been	

Validation Data

Contact information

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