

Product datasheet

Recombinant Human HLA-DQB1 protein ab114251

1 图像

概述

产品名称	重组人HLA-DQB1蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Wheat germ
氨基酸序列	
Accession	P01920
种属	Human
序列	MSWKKALRIPGGLRVATVTLMLAMLSTPVAEGRDSPEDFV YQFKGMCYFT NGTERVRLVTRYIYNREEYARFDSVGVYRAVTPLGPPAA EYWNSQKEVL ERTRAEALDTCRHNHYQLELRITTLQRRVEPTVTISPSRTEA LNHHNLLVCS VTDIFYPAQIKVRWFRNDQEETTGVVSTPLIRNGDWFQIL VMLEMPQRG DVYTCHVEHPSLQNPPIIVWRAQSESAQSKMLSGIGGFVL GLIFLGLGLI IHHS
分子量	55 kDa including tags
氨基酸	1 to 261
标签	GST tag N-Terminus

技术指标

Our [Abpromise guarantee](#) covers the use of **ab114251** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	ELISA SDS-PAGE Western blot
形式	Liquid

补充说明

Protein concentration is above or equal to 0.05 µg/µl

制备和贮存

稳定性和存储

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

常规信息

功能

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 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.

序列相似性

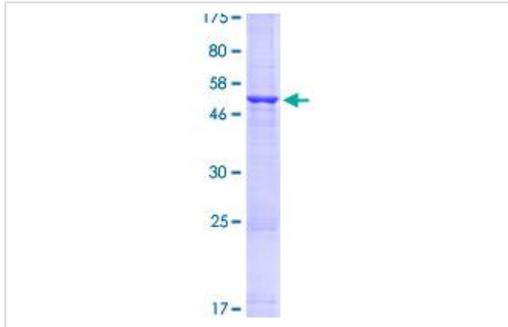
Belongs to the MHC class II family.

Contains 1 Ig-like C1-type (immunoglobulin-like) domain.

细胞定位

Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus, trans-Golgi network membrane. Endosome membrane. Lysosome membrane. The MHC class II complex transits through a number of intracellular compartments in the endocytic pathway until it reaches the cell membrane for antigen presentation.

图片



SDS-PAGE - Recombinant Human HLA-DQB1 protein (ab114251)

ab114251 analysed by 12.5% SDS-PAGE and stained with Coomassie Blue.

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