

**AR51405PU-S****Human HLA class II DR beta 1 / HLA-DRB1 (30-227, His-tag) - Purified**

<b>Alternate names:</b>	DR-1, DR1, DRB1-1 beta chain, HLA class II histocompatibility antigen, MHC class II antigen DRB1
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml (determined by Bradford assay)
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P04229</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >85% by SDS - PAGE <b>Buffer System:</b> 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% Glycerol
<b>Description:</b>	Recombinant Human HLA-DRB1 protein, fused to <i>His-tag</i> at N-terminus, was expressed in E.coli. <b>AA Sequence:</b> <u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGDTRPRFLW</u> <u>QPKRECHFFN</u> <u>GTERVRFLLDR</u> <u>YFYNQEESVR</u> <u>FDSVDVGEFRA</u> <u>VTELGRPDAE</u> <u>YWNSQKDILE</u> <u>QARAAVDTYC</u> <u>RHNYGVVESF</u> <u>TVQRRVQPKV</u> <u>TVYPSTKQPL</u> <u>QHHNLLVCSV</u> <u>SGFYPGSIEV</u> <u>RWFLNGQEEK</u> <u>AGMVSTGLIQ</u> <u>NGDWTFTQLV</u> <u>MLETVPRSGE</u> <u>VYTCQVEHPS</u> <u>VTSPLTVEWR</u> <u>ARSESAQSK</u> <b>Molecular weight:</b> 25.2 kDa (219aa)
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Menéndez-Benito V, Neefjes J. Autophagy in MHC class II presentation: sampling from within. <i>Immunity</i> . 2007 Jan;26(1):1-3. PubMed PMID: 17241953. 2. De Gassart A, Camosseto V, Thibodeau J, Ceppi M, Catalan N, Pierre P, et al. MHC class II stabilization at the surface of human dendritic cells is the result of maturation-dependent MARCH I down-regulation. <i>Proc Natl Acad Sci U S A</i> . 2008 Mar 4;105(9):3491-6. doi: 10.1073/pnas.0708874105. Epub 2008 Feb 27. PubMed PMID: 18305173.

Pictures:

