

## Product datasheet for **TA370347S**

### HLA-DRB1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Raji cell, Human spleen tissue lysates IHC: 50-300 Positive control: Human prostate cancer Predicted cell location: Cytoplasm and Cell membrane
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human HLA-DRB1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	30 kDa
Gene Name:	major histocompatibility complex, class II, DR beta 1
Database Link:	<a href="#">Entrez Gene 3123 Human P01911</a>



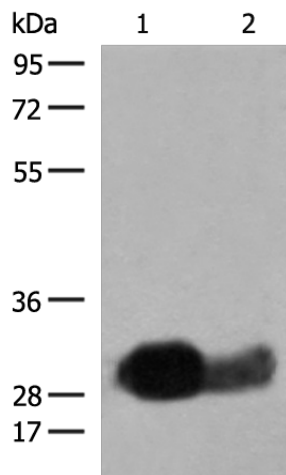
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**Background:**

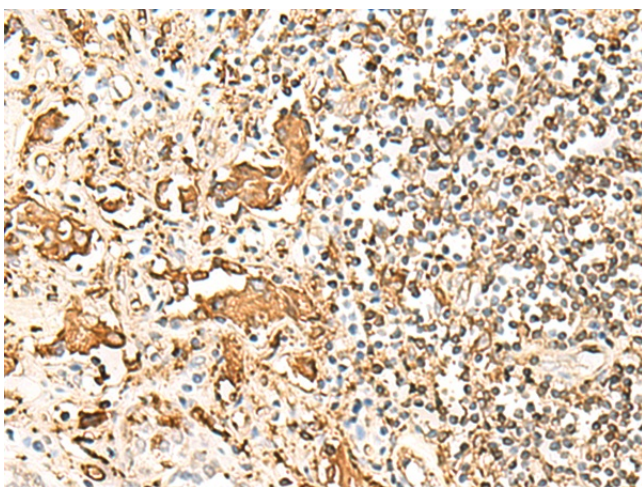
HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules 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. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Hundreds of DRB1 alleles have been described and typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. DRB1 is expressed at a level five times higher than its paralogs DRB3, DRB4 and DRB5. DRB1 is present in all individuals. Allelic variants of DRB1 are linked with either none or one of the genes DRB3, DRB4 and DRB5. There are 4 related pseudogenes: DRB2, DRB6, DRB7, DRB8 and DRB9.

**Synonyms:**

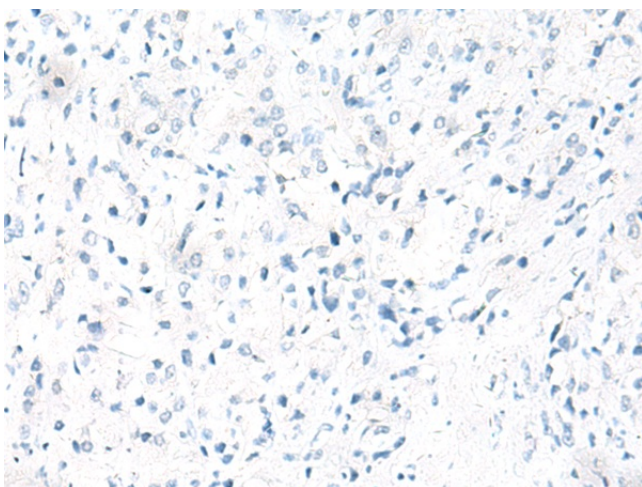
HLA-DR1B

**Product images:**

Gel: 8%SDS-PAGE  
Lysate: 40 µg  
Lane 1-2: Raji cell  
Human spleen tissue lysates  
Primary antibody: [TA370347] (HLA-DRB1 Antibody) at dilution 1/550  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 5 seconds



Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using [TA370347] (HLA-DRB1 Antibody) at dilution 1/75 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using [TA370347] (HLA-DRB1 Antibody) at dilution 1/75, treated with fusion protein. (Original magnification:  $\times 200$ )