Product datasheet

Anti-HLA-DRA Antibody (Clone#5B13F7)

Catalog Number: *M01195-4*

BOSTER
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Basic Information

Product Name	Anti-HLA-DRA Antibody (Clone#5B13F7)
Gene Name	HLA-DRA
Source	Mouse
Isotype	IgG2b
Species Reactivity	human
Tested Application	WB, IHC, FCM
Contents	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Immunogen	E.coli-derived human HLA-DR/HLA-DRA recombinant protein (Position: I26-L254).
concentration	500 ug/ml
Purification	protein G/A purified
Observed MW	35-37KD
Dilution Ratios	Western blot(WB): 1:500-2000 Flow Cytometry (FCM): 1-3 μg/1x10^6 cells Immunohistochemistry in paraffin section (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

HLA class II histocompatibility antigen, DR alpha chain?is a?protein?that in humans is encoded by the HLA-DRA?gene. It is mapped to 6p21.32. HLA-DRA is one of the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha and a beta chain, 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 alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. DRA does not have polymorphisms in the peptide binding part and acts as the sole alpha chain for DRB1, DRB3, DRB4 and DRB5.

Selected Validation Data

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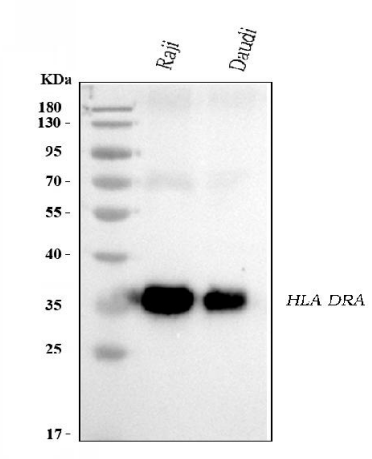

Figure 1. Western blot analysis of anti- HLA-DR antibody (M01195-4). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: Raji whole cell lysate,
Lane 2: Daudi whole cell lysate.
Use mouse anti- HLA-DR 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for HLA-DR at approximately 35-37KD. The expected band size for HLA-DR is at 29KD.