

# Biotin Rabbit anti-Human/Monkey HLA-DR mAb

Catalog No.: A27380

## Basic Information

### Observed MW

**Calculated MW**  
29kDa

**Category**  
Primary antibody

**Applications**  
FC

**Cross-Reactivity**  
Human, Cynomolgus

**CloneNo number**  
ARC5141-01

**Conjugate**  
Biotin

## Background

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. This molecule is expressed on the surface of various antigen presenting cells such as B lymphocytes, dendritic cells, and monocytes/macrophages, and plays a central role in the immune system and response by presenting peptides derived from extracellular proteins, in particular, pathogen-derived peptides to T cells. 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.

## Recommended Dilutions

**FC** 5 µl per 10<sup>6</sup> cells in  
100 µl volume

## Immunogen Information

<b>Gene ID</b> 3122	<b>Swiss Prot</b> P01903
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### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**  
HLA-DRA1

## Contact

☎		400-999-6126
✉		cn.market@abclonal.com.cn
🌐		www.abclonal.com.cn

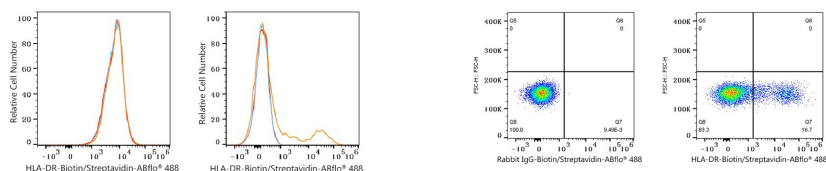
## Product Information

<b>Source</b> Rabbit	<b>Isotype</b> IgG	<b>Purification</b> Affinity purification
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### Storage

Store at 2-8°C. Avoid freeze.  
Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data



Flow cytometry:  $1 \times 10^6$  PC-3 cells (negative control, left) and Human PBMC (Lymphocytes, right) were surface-stained with Biotin Rabbit anti-Human HLA-DR mAb (A27380, 5  $\mu$ l/Test, orange line) or Biotin Rabbit IgG isotype control (A25626, 5  $\mu$ l/Test, blue line), followed by ABflo® 488 Streptavidin staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry:  $1 \times 10^6$  Human PBMC (Lymphocytes, right) were surface-stained with Biotin Rabbit IgG isotype control (A25626, 5  $\mu$ l/Test, left) or Biotin Rabbit anti-Human HLA-DR mAb (A27380, 5  $\mu$ l/Test, right), followed by ABflo® 488 Streptavidin staining.