

# APC Rabbit anti-Mouse H-2Kd/H-2Dd mAb

**Catalog No.: A27735**

## Basic Information

**Observed MW****Calculated MW**

41kDa

**Category**

Primary antibody

**Applications**

FC

**Cross-Reactivity**

Mouse

**CloneNo number**

ARC73180

**Conjugate**

APC. Ex:650nm. Em:660nm.

## Background

H-2Kd and H-2Dd are classical MHC class I alloantigens encoded within the murine major histocompatibility complex (H-2 system). These transmembrane glycoproteins function as critical components of the adaptive immune system by mediating antigen presentation to cytotoxic T lymphocytes (CTLs) through interactions with the CD3/T-cell receptor (TCR) complex and the CD8 co-receptor. Structurally, these MHC I molecules consist of a polymorphic heavy  $\alpha$ -chain non-covalently associated with the invariant light chain  $\beta$ 2-microglobulin ( $\beta$ 2m), forming a peptide-binding groove that accommodates 8-10 amino acid antigenic peptides derived from endogenous protein degradation via the proteasomal pathway.

## Recommended Dilutions

**FC**                       $\leq 0.5 \mu\text{g}$  per million cells  
in 100  $\mu\text{l}$  volume

## Immunogen Information

**Gene ID**

14972/14964

**Swiss Prot**

P01902/P01900

**Immunogen**

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

**Synonyms**

H2-D1; H-2D; H2-K1; H-2K; H2-K

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

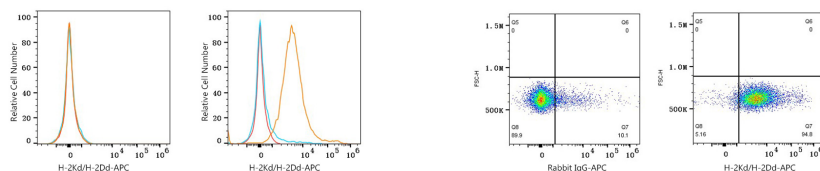
Affinity purification

**Storage**

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data



Flow cytometry:  $1 \times 10^6$  C57BL/6 mouse splenocytes (negative control, left) and BALB/c mouse splenocytes (right) were surface-stained with APC Rabbit anti-Mouse H-2Kd/H-2Dd mAb (A27735, 0.5  $\mu$ g, orange line) or APC Rabbit IgG isotype control (A24173, 0.5  $\mu$ g, blue line). Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry:  $1 \times 10^6$  BALB/c mouse splenocytes were surface-stained with APC Rabbit IgG isotype control (A24173, 0.5  $\mu$ g, left) or APC Rabbit anti-Mouse H-2Kd/H-2Dd mAb (A27735, 0.5  $\mu$ g, right).