

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

Catalog NO.: A27735

Basic Information

Observed MW

Calculated MW

41kDa

Category

Monoclonal Antibodies

Applications

FC

Cross-Reactivity

Mouse

Conjugation

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

Clone number

ARC73180

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 α -chain non-covalently associated with the invariant light chain β 2-microglobulin (β 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 μl 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

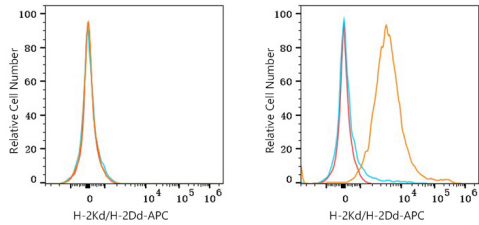
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Product Information

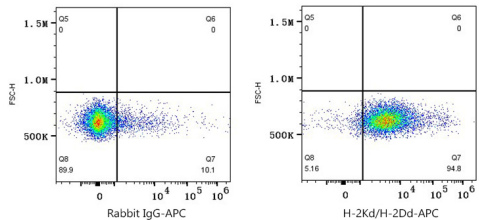
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Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at 2-8°C. Avoid freeze.		
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.		

Validation Data



Flow cytometry: 1X10⁶ 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 μg,orange line) or APC Rabbit IgG isotype control (A24173,0.5 μg,blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10⁶ BALB/c mouse splenocytes were surface-stained with APC Rabbit IgG isotype control (A24173,0.5 μg,left) or APC Rabbit anti-Mouse H-2Kd/H-2Dd mAb (A27735,0.5 μg,right).

