Leader in Biomolecular Solutions for Life Science

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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 α-chain non-covalently associated with the invariant light chain β2-microglobulin (β2m), 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	≤0.5 μg 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

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

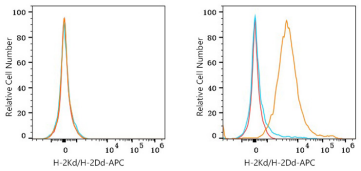
Source
Rabbit

Isotype
IgG

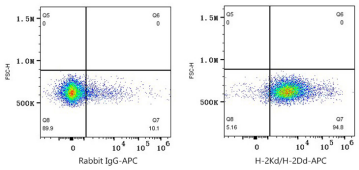
Purification
Affinity purification

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

Validation Data



Flow cytometry: 1X10^6 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 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: 1X10^6 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).