

A27735

Leader in Biomolecular Solutions for Life Science



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

Catalog No.: A27735

Basic Information

Observed MW

Calculated MW

41kDa

Category

SMab Recombinant Monoclonal
Antibody

Applications

FC

Cross-Reactivity

Mouse

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 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

Contact

 www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

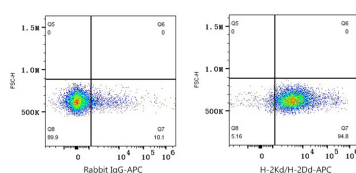
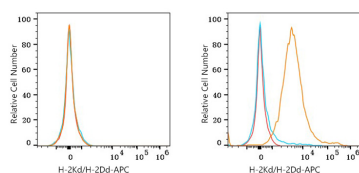
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

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

Validation Data



Flow cytometry: 1×10^6 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 μ g, orange line) or APC Rabbit IgG isotype control (A24173, 0.5 μ g, blue line). Non-fluorescently stained cells were used as blank control (red line).

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