

Purified anti-mouse H-2K^b/H-2D^b Antibody

Catalog# / Size	114602 / 500 µg
Clone	28-8-6
Regulatory Status	RUO
Other Names	MHC class I
Isotype	Mouse (C3H) IgG2a, κ
Description	The 28-8-6 antibody reacts with the H-2K ^b and H-2D ^b MHC class I alloantigens expressed on nucleated cells from mice of the H-2K ^b /H-2D ^b haplotype. H-2K ^b /H-2D ^b is involved in antigen presentation to T cells expressing CD3/TCR and CD8 proteins. The 28-8-6 antibody cross-reacts with H-2D ^d MHC class I alloantigen, but does not react with alloantigens of f, k, p, q, r, s haplotypes.

Product Details

Verified Reactivity	Mouse b haplotype, Cross-reacts with H-2D ^d MHC class I alloantigen
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	C3H.SW mouse splenocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: complement-mediated cytotoxicity ¹ , and immunohistochemical staining ² of acetone-fixed frozen sections.
Application References	<ol style="list-style-type: none">1. Ozato K, <i>et al.</i> 1981. <i>J. Immunol.</i> 126:317. (Cyt)2. Pappo J, <i>et al.</i> 1999. <i>Infect. Immun.</i> 67:337. (IHC)3. Bui JD, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:905. (FC) PubMed.4. Shao H, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:1851. (FC)
Product Citations	<ol style="list-style-type: none">1. Wei SC, <i>et al.</i> 2019. <i>Immunity.</i> 50:1084. PubMed2. Woodham AW, <i>et al.</i> 2018. <i>Cancer Immunol Res.</i> 0.854166667. PubMed3. Krovi SH, <i>et al.</i> 2019. <i>Proc Natl Acad Sci U S A.</i> 116:22252. PubMed4. Bui J, <i>et al.</i> 2006. <i>J Immunol.</i> 176:905. PubMed5. Zhu XG, <i>et al.</i> 2020. <i>Cell Metabolism.</i> 33(1):211-221.e6. PubMed6. Rustenhoven J, <i>et al.</i> 2021. <i>Cell.</i> 184(4):1000-1016.e27. PubMed
RRID	AB_313593 (BioLegend Cat. No. 114602)

Antigen Details

Structure	MHC class I
Distribution	Nucleated cells of the H-2K ^b /H-2D ^b haplotype
Function	Antigen presentation
Ligand/Receptor	CD3/TCR, CD8
Biology Area	Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	1. Ozato K, <i>et al.</i> 1981. <i>J. Immunol.</i> 126:317. 2. Allen H, <i>et al.</i> 1986. <i>P. Natl. Acad. Sci. USA</i> 83:7447. 3. Evans GA, <i>et al.</i> 1992. <i>Nature</i> 300:755.
Gene ID	14964 14972

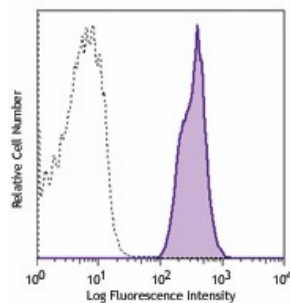
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-mouse H-2K^b/H-2D^b, Purified anti-mouse H-2K^b/H-2D^b, Biotin anti-mouse H-2K^b/H-2D^b, PE anti-mouse H-2K^b/H-2D^b, Alexa Fluor® 647 anti-mouse H-2K^b/H-2D^b, PerCP/Cyanine5.5 anti-mouse H-2K^b/H-2D^b, APC/Fire™ 750 anti-mouse H-2K^b/H-2D^b, APC anti-mouse H-2K^b/H-2D^b, PE/Cyanine7 anti-mouse H-2K^b/H-2D^b

Product Data



C57BL/6 mouse splenocytes were stained with purified H-2K^b/H-2D^b (clone 28-8-6) (filled histogram) or purified mouse IgG2a, κ isotype control (open histogram), followed by anti-mouse IgG2a PE.

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