

Purified anti-mouse H-2D^k Antibody

Catalog# / Size	110302 / 500 µg
Clone	15-5-5
Regulatory Status	RUO
Other Names	MHC class I
Isotype	Mouse (C3H.SW) IgG2a, κ
Description	The 15-5-5 antibody reacts with the H-2D ^k MHC class I alloantigen expressed on nucleated cells from mice of the H-2D ^k haplotype. H-2D ^k is involved in antigen presentation to T cells expressing CD3/TCR and CD8 proteins. The 15-5-5 antibody weakly cross-reacts with H-2K ^d and with cells from mice of the H-2 ^f haplotype. Reactivity with other haplotypes (e.g., a,b,p,q,r,s) has not been reported.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	C3H 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 IP - 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 ≤ 1.0 µg per 10 ⁶ 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 . This clone does not cross react with other haplotypes (e.g., a, b, p, q, r, s).
Application References	1. Ozato K, <i>et al.</i> 1980. <i>J. Immunol.</i> 124:533. 2. Yamamoto M, <i>et al.</i> 1998. <i>J. Immunol.</i> 160:2188. 3. Houlden BA, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:425. (IP) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	1. Fodil-Cornu N, <i>et al.</i> 2011. PLoS One. 6:e1001368. PubMed
RRID	AB_313475 (BioLegend Cat. No. 110302)

Antigen Details

Structure	MHC class I
Distribution	Nucleated cells of the H-2D ^k haplotype

Function	Antigen presentation
Ligand/Receptor	CD3/TCR, CD8
Biology Area	Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	1. Watts C. 1997. <i>Ann. Rev. Immunol.</i> 15:821. 2. Pamer E, <i>et al.</i> 1998. <i>Ann. Rev. Immunol.</i> 16:323. 3. York I, <i>et al.</i> 1996. <i>Ann. Rev. Immunol.</i> 14:369.
Gene ID	14964

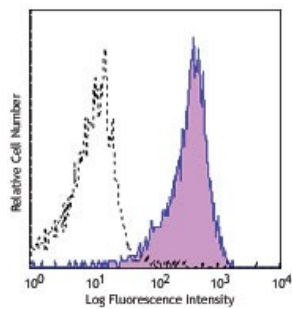
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-mouse H-2D^k, Purified anti-mouse H-2D^k

Product Data



C3H/He mouse splenocytes were stained with purified H-2D^k (clone 15-5-5) (filled histogram) or mouse IgG2a, κ isotype control (open histogram), followed by anti-mouse IgG2a FITC.

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