

Purified anti-mouse H-2K^b Antibody

Catalog# / Size	116501 / 50 µg 116502 / 500 µg
Clone	AF6-88.5
Regulatory Status	RUO
Other Names	MHC class I
Isotype	Mouse (BALB/c) IgG2a, κ
Description	The AF6-88.5 antibody reacts with H-2K ^b MHC class I alloantigen expressed on nucleated cells from mice of the H-2K ^b haplotype. H-2K ^b is involved in antigen presentation to T cells expressing CD3/TCR and CD8 proteins. The AF6-88.5 antibody does not cross-react with other haplotypes (d, f, j, k, p, q, r, s, u, v).

Product Details

Reactivity	Mouse b haplotype
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	C57BL 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, 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 ≤ 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: immunoprecipitation ² and immunohistochemical staining of acetone-fixed frozen sections ³ . Clone AF6-88.5 is not suitable for immunohistochemical staining of formalin-fixed paraffin embedded sections. Does not cross-react with other haplotypes (e.g., d, f, j, k, p, q, r, s, u, v).
Application References	<ol style="list-style-type: none">1. Loken MR, <i>et al.</i> 1982. <i>J. Immunol. Methods</i> 50:R85.2. Wall KA, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:1056.3. Andersson M, <i>et al.</i> 1998. <i>J. Immunol.</i> 161:6475.4. Shao H, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:1851.5. Hui S, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:1851. PubMed6. Zhou K, <i>et al.</i> 2010. <i>Cytotherapy.</i> 12:735. PubMed7. Desvignes L, <i>et al.</i> 2012. <i>J Immunol.</i> 188:6205. PubMed
Product Citations	<ol style="list-style-type: none">1. Xu W, <i>et al.</i> 2021. <i>Immunity.</i> 54(3):526-541.e7. PubMed2. Toubai T, <i>et al.</i> 2017. <i>Blood Adv.</i> 1.095138889. PubMed3. Robert S, <i>et al.</i> 2018. <i>Bone Marrow Transplant.</i> 53:807. PubMed4. Stefanski HE, <i>et al.</i> 2018. <i>PLoS One.</i> 13:e0198871. PubMed5. Shao H, <i>et al.</i> 2005. <i>J Immunol.</i> 175:1851. PubMed6. Desvignes L, <i>et al.</i> 2012. <i>J Immunol.</i> 188:6205. PubMed

RRID AB_313728 (BioLegend Cat. No. 116501)
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Antigen Details

Structure	MHC class I
Distribution	Nucleated cells of the H-2K ^b 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. Review Immunol.</i> 15:821. 2. Pamer E, <i>et al.</i> 1998. <i>Ann. Review Immunol.</i> 16:323. 3. York I, <i>et al.</i> 1996. <i>Ann. Rev. Immunol.</i> 14:369.
Gene ID	14972

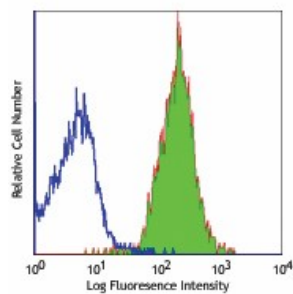
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Biotin anti-mouse H-2K^b, FITC anti-mouse H-2K^b, PE anti-mouse H-2K^b, Purified anti-mouse H-2K^b, Alexa Fluor® 488 anti-mouse H-2K^b, Alexa Fluor® 647 anti-mouse H-2K^b, Pacific Blue™ anti-mouse H-2K^b, PerCP/Cyanine5.5 anti-mouse H-2K^b, APC anti-mouse H-2K^b, PE/Cyanine7 anti-mouse H-2K^b, Alexa Fluor® 700 anti-mouse H-2K^b, Brilliant Violet 510™ anti-mouse H-2K^b, Brilliant Violet 421™ anti-mouse H-2K^b

Product Data



C57BL/6 mouse splenocytes stained with purified AF6-88.5, followed by anti-mouse IgG2a FITC

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