

APC anti-mouse I-A^b Antibody

Catalog# / Size	116417 / 25 µg 116418 / 100 µg
Clone	AF6-120.1
Regulatory Status	RUO
Other Names	MHC class II
Isotype	Mouse (BALB/c) IgG2a, κ
Description	The AF6-120.1 antibody reacts with the I-A ^b MHC class II alloantigen. These class II molecules are expressed on antigen presenting cells (including B cells) and a subset of T cells from H-2 ^D bearing mice, and are involved in antigen presentation to T cells expressing CD3/TCR and CD4 proteins. The AF6-120.1 antibody cross-reacts with H-2 ^K and H-2 ^L haplotypes; this antibody does not cross-react with other haplotypes (d, f, q, r, s).

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	C57BL/10J splenocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for relevant formats of this clone) include: immunohistochemical staining of frozen sections (acetone-fixed ⁵ ; OCT-embedded, ethanol-fixed sections ⁷), immunofluorescence microscopy ³ (including acetone-fixed epidermal sheets ⁶), immunoprecipitation ^{7,8} . Directly conjugated antibody was used for IF in (3) and (6) and for IHC in (5). Does not react with other haplotypes (e.g., d, f, q, r, s).
Application References	<ol style="list-style-type: none"> 1. Wall KA, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:1056. (FC) 2. Cohn LE, <i>et al.</i> 1986. <i>P. Natl. Acad. Sci. USA</i> 83:747. (FC) 3. Inaba K, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 188:2163 (IF) 4. Hamrah P, <i>et al.</i> 2002. <i>Invest Ophthalmol Vis. Sci.</i> 43:639 (IF) 5. Buono C, <i>et al.</i> 2003. <i>Arterioscler. Thromb. Vasc. Biol.</i> 23:454. (IHC) 6. Wang Z, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:5924. (IHC IF) 7. Nakagawa TY, <i>et al.</i> 1999. <i>Immunity</i> 10:207. (IP) 8. Podolin PL, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7989. (FC IP) PubMed 9. Schneppenheim J, <i>et al.</i> 2013. <i>J Exp Med.</i> 210:41. PubMed.
(PubMed link indicates BioLegend citation)	

Product Citations

1. McCartin C, *et al.* 2022. *Cancers (Basel)*. 14:.. [PubMed](#)
2. Bao H, *et al.* 2020. *Mol Med Rep*. 4:675. [PubMed](#)
3. Russler-Germain EV, *et al.* 2021. *Elife*. 10:.. [PubMed](#)
4. Guo L, *et al.* 2021. *Vaccines (Basel)*. 9:.. [PubMed](#)
5. Colombo M, *et al.* 2022. *iScience*. 25:105042. [PubMed](#)
6. Wang M *et al.* 2018. *Immunity*. 49(1):66-79 . [PubMed](#)
7. Stephens WZ, *et al.* 2021. *Cell Rep*. 37:109916. [PubMed](#)
8. Jing Y, *et al.* 2021. *Front Immunol*. 12:651860. [PubMed](#)
9. Ulaganathan VK, *et al.* 2020. *Sci Rep*. 10:8453. [PubMed](#)
10. Clemente-Casares X, *et al.* 2017. *Immunity*. 47:974. [PubMed](#)

RRID AB_10575761 (BioLegend Cat. No. 116417)
 AB_10574160 (BioLegend Cat. No. 116418)

Antigen Details

Structure	MHC class II
Distribution	B cell and activated T cells, APCs of H-2 ^b mice
Function	Antigen presentation
Ligand/Receptor	CD3/TCR, CD4
Cell Type	Antigen-presenting cells, B cells, T cells
Biology Area	Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	1. Watts C. 1997. <i>Annu. Rev. Immunol.</i> 15:821. 2. Pamer E, <i>et al.</i> 1998. <i>Annu. Rev. Immunol.</i> 16:323.
Gene ID	14961

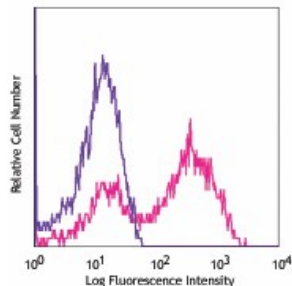
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Biotin anti-mouse I-A^b, FITC anti-mouse I-A^b, PE anti-mouse I-A^b, Purified anti-mouse I-A^b, Alexa Fluor® 488 anti-mouse I-A^b, Alexa Fluor® 647 anti-mouse I-A^b, PerCP/Cyanine5.5 anti-mouse I-A^b, APC anti-mouse I-A^b, PE/Cyanine7 anti-mouse I-A^b, Pacific Blue™ anti-mouse I-A^b, APC/Fire™ 750 anti-mouse I-A^b, APC/Cyanine7 anti-mouse I-A^b

Product Data



C57BL/6 mouse splenocytes stained with AF6-120.1 APC

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587