

## PE anti-mouse I-A<sup>b</sup> Antibody

<b>Catalog# / Size</b>	116407 / 50 µg 116408 / 200 µg
<b>Clone</b>	AF6-120.1
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	MHC class II
<b>Isotype</b>	Mouse (BALB/c) IgG2a, κ
<b>Description</b>	The AF6-120.1 antibody reacts with the I-A <sup>b</sup> 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 <sup>b</sup> 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 <sup>k</sup> and H-2 <sup>d</sup> haplotypes; this antibody does not cross-react with other haplotypes (d, f, q, r, s).

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	C57BL/10J splenocytes
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10 <sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for relevant formats of this clone) include: immunohistochemical staining of frozen sections (acetone-fixed <sup>5</sup> ; OCT-embedded, ethanol-fixed sections <sup>7</sup> ), immunofluorescence microscopy <sup>3</sup> (including acetone-fixed epidermal sheets <sup>6</sup> ), immunoprecipitation <sup>7,8</sup> . 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).
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Wall KA, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:1056. (FC)</li> <li>2. Cohn LE, <i>et al.</i> 1986. <i>P. Natl. Acad. Sci. USA</i> 83:747. (FC)</li> <li>3. Inaba K, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 188:2163 (IF)</li> <li>4. Hamrah P, <i>et al.</i> 2002. <i>Invest Ophthalmol Vis. Sci.</i> 43:639 (IF)</li> <li>5. Buono C, <i>et al.</i> 2003. <i>Arterioscler. Thromb. Vasc. Biol.</i> 23:454. (IHC)</li> <li>6. Wang Z, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:5924. (IHC IF)</li> <li>7. Nakagawa TY, <i>et al.</i> 1999. <i>Immunity</i> 10:207. (IP)</li> <li>8. Podolin PL, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7989. (FC IP) <a href="#">PubMed</a></li> <li>9. Schneppenheim J, <i>et al.</i> 2013. <i>J Exp Med.</i> 210:41. <a href="#">PubMed</a>.</li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

## Product Citations

1. Beuneu H, *et al.* 2006. *J Immunol.* 177:1406. [PubMed](#)
2. Wu J, *et al.* 2021. *Mol Med Rep.* 23:. [PubMed](#)
3. Liang Y, *et al.* 2014. *J Immunol.* 192:1277. [PubMed](#)
4. Garo LP, *et al.* 2019. *Cell Rep.* 28:3353. [PubMed](#)
5. Pinho S, *et al.* 2022. *Nat Cell Biol.* 24:290. [PubMed](#)
6. Zager A, *et al.* 2017. *Progress in Neuro-Psychopharmacology and Biological Psychiatry.* 10.1016/j.pnpbp.2017.05.003. [PubMed](#)
7. Song S, *et al.* 2021. *Front Immunol.* 12:705140. [PubMed](#)
8. Su M, *et al.* 2018. *Immunol Cell Biol.* 9:2448. [PubMed](#)

## RRID

AB\_313726 (BioLegend Cat. No. 116407)  
AB\_313727 (BioLegend Cat. No. 116408)

## Antigen Details

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<b>Structure</b>	MHC class II
<b>Distribution</b>	B cell and activated T cells, APCs of H-2 <sup>b</sup> mice
<b>Function</b>	Antigen presentation
<b>Ligand/Receptor</b>	CD3/TCR, CD4
<b>Cell Type</b>	Antigen-presenting cells, B cells, T cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	MHC Antigens
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">14961</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

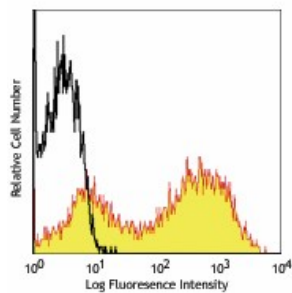
## Other Formats

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

## Product Data

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C57BL/6 mouse splenocytes stained with AF6-120.1 PE

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Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587