

## Biotin anti-mouse I-A<sup>d</sup> Antibody

<b>Catalog# / Size</b>	115003 / 50 µg
<b>Clone</b>	39-10-8
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	MHC class II
<b>Isotype</b>	Mouse (C3H.SW) IgG3, κ
<b>Description</b>	The 39-10-8 antibody reacts with the I-A <sup>d</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>d</sup> bearing mice and are involved in antigen presentation to T cells expressing CD3/TCR and CD4 proteins. The 39-10-8 antibody does not cross-react with other haplotypes (a, b, k, p, q, s), but has been demonstrated to cross-react with the g7 haplotype.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	(C3H x BALB/c)F <sub>1</sub> mouse cells
<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 biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <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>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunofluorescence microscopy <sup>2</sup> , and immunohistochemical staining of acetone-fixed frozen sections.  Does not cross-react with other haplotypes (e.g., a, b, k, p, q, s).
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"><li>1. Hiramane C, <i>et al.</i> 1995. <i>Cell. Immunol.</i> 160:157.</li><li>2. Wang Z, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:5924.</li><li>3. Ma XT, <i>et al.</i> 2006. <i>Cancer Research</i> 66:1169.</li><li>4. Norian LA and Allen PM. 2004. <i>J. Immunol.</i> 173:835. <a href="#">PubMed</a></li><li>5. Tian C, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:6762.</li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Bergot AS, <i>et al.</i> 2020. <i>J Immunol.</i> 204:1787. <a href="#">PubMed</a></li><li>2. Allen L 2004. <i>J Immunol.</i> 173:835. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_313618 (BioLegend Cat. No. 115003)

### 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>d</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, Tregs
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	MHC Antigens
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Watts C. 1997. <i>Ann. Rev. Immunol.</i> 15:821.</li> <li>2. Pamer E, <i>et al.</i> 1998. <i>Ann. Rev. Immunol.</i> 16:323.</li> <li>3. Wall KA, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:1056.</li> <li>4. Ridgway WM, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 188:2267.</li> </ol>
<b>Gene ID</b>	<a href="#">14961</a>

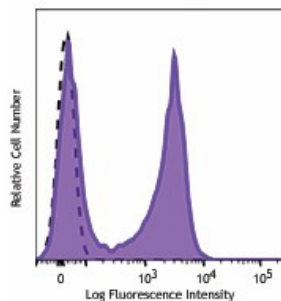
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse I-A<sup>d</sup>, Biotin anti-mouse I-A<sup>d</sup>, FITC anti-mouse I-A<sup>d</sup>, Alexa Fluor® 488 anti-mouse I-A<sup>d</sup>, Alexa Fluor® 647 anti-mouse I-A<sup>d</sup>

## Product Data



BALB/c mouse splenocytes were stained with biotinylated anti-mouse I-Ad (clone 39-10-8, filled histogram) or biotinylated mouse IgG3,  $\kappa$  isotype control (open histogram), followed by streptavidin PE.

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