

## Alexa Fluor<sup>®</sup> 647 anti-mouse I-A<sup>d</sup> Antibody

<b>Catalog# / Size</b>	115009 / 25 µg 115010 / 100 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 Alexa Fluor <sup>®</sup> 647 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, 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>	<p>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 million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor<sup>®</sup> 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor<sup>®</sup> and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	<p>Additional reported applications (for the relevant formats) include: immunofluorescence microscopy<sup>2</sup>, and immunohistochemical staining of acetone-fixed frozen sections.</p> <p>Does not cross-react with other haplotypes (e.g., a, b, k, p, q, s).</p>
<b>Application References</b>	<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. Koyama M, <i>et al.</i> 2015. <i>J Exp Med.</i> 212: 1303 - 1321. <a href="#">PubMed</a></li></ol>

- Mizraji\* G, *et al.* 2013. *J Vis Exp.* 77: 50388. [PubMed](#)
- Perry JSA, *et al.* 2018. *Immunity.* 48:923. [PubMed](#)

**RRID** AB\_493150 (BioLegend Cat. No. 115009)  
AB\_493149 (BioLegend Cat. No. 115010)

## 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>Watts C. 1997. <i>Ann. Rev. Immunol.</i> 15:821.</li><li>Pamer E, <i>et al.</i> 1998. <i>Ann. Rev. Immunol.</i> 16:323.</li><li>Wall KA, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:1056.</li><li>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

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[Cell Surface Flow Cytometry Staining Protocol](#)

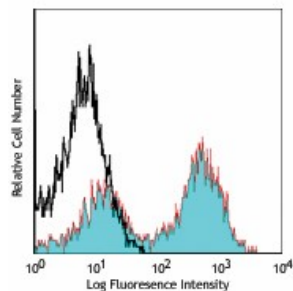
## Other Formats

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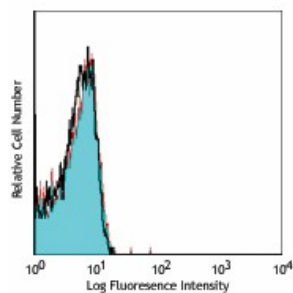
Purified anti-mouse I-A<sup>d</sup>, Biotin anti-mouse I-A<sup>d</sup>, FITC anti-mouse I-A<sup>d</sup>, Alexa Fluor® 488 anti-mouse I-A<sup>d</sup>, Alexa Fluor® 647 anti-mouse I-A<sup>d</sup>

## Product Data

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BALB/c mouse splenocytes stained with 39-10-8 Alexa Fluor® 647



C57BL/6 mouse splenocytes stained with 39-10-8 Alexa Fluor® 647

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