

## Purified anti-mouse I-A<sup>k</sup> (Aβ<sup>k</sup>) Antibody

<b>Catalog# / Size</b>	109902 / 500 µg
<b>Clone</b>	10-3.6
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	MHC class II
<b>Isotype</b>	Mouse (CWB) IgG2a, κ
<b>Description</b>	The 10-3.6 antibody reacts with the β chain of the I-A <sup>k</sup> MHC class II alloantigen. This class II molecule is expressed on antigen presenting cells (including B cells) and a subset of T cells from H-2 <sup>k</sup> bearing mice and involved in antigen presentation to T cells expressing CD3/TCR and CD4 proteins. The 10-3.6 antibody cross-reacts with I-A <sup>f,r,s</sup> antigens and I-A <sup>g7</sup> of NOD mice; it does not react with other haplotypes (e.g., b, d, p, q).

### 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 mouse 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.
<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>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">IHC-F, IP - Reported in the literature, not verified in house</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 million 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 immunoprecipitation <sup>1,2</sup> , protection against autoimmune IDDM <sup>3</sup> , <i>in vitro</i> blocking of antigen-specific MHC-restricted responses and <i>in vivo</i> inhibition of lymphoma growth <sup>4</sup> , and immunohistochemical staining <sup>5</sup> of acetone-fixed frozen sections.  This clone does not cross react with other haplotypes (e.g. b, d, p, q).
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Landais D, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:3002. (IP)</li><li>2. Kupinski JM, <i>et al.</i> 1983. <i>J. Immunol.</i> 130:2277. (IP)</li><li>3. Kappler JW, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:1198.</li><li>4. Alisauskas RM, <i>et al.</i> 1986. <i>Immunopharmacology</i> 12:1.</li><li>5. Reis e Sousa and Germain 1999. <i>J. Immunol.</i> 162:6652. (IHC)</li><li>6. Yui MA, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:284. <a href="#">PubMed</a></li><li>7. Gaudreau S, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:3638. (FC)</li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Wu X, <i>et al.</i> 2022. <i>J Neuroinflammation.</i> 19:253. <a href="#">PubMed</a></li><li>2. Drake JR, <i>et al.</i> 2019. <i>Immunohorizons.</i> 3:28. <a href="#">PubMed</a></li><li>3. Khosravi-Maharlooei M, <i>et al.</i> 2021. <i>J Autoimmun.</i> 119:102612. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_313451 (BioLegend Cat. No. 109902)

## Antigen Details

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<b>Structure</b>	$\beta$ chain of 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, Tregs
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	MHC Antigens
<b>Antigen References</b>	1. Watts C. 1997. <i>Ann. Rev. Immunol.</i> 15:821. 2. Pamer E, <i>et al.</i> 1998. <i>Ann. Rev. Immunol.</i> 16:323.
<b>Gene ID</b>	<a href="#">14960</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

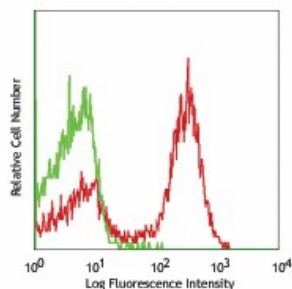
## Other Formats

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FITC anti-mouse I-A<sup>k</sup> (A $\beta$ <sup>k</sup>), PE anti-mouse I-A<sup>k</sup> (A $\beta$ <sup>k</sup>), Purified anti-mouse I-A<sup>k</sup> (A $\beta$ <sup>k</sup>)

## Product Data

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C3H mouse splenocytes stained with 10-3.6 purified, followed by anti-mouse IgG2a FITC

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