

Alexa Fluor® 488 anti-mouse I-A^d Antibody

Catalog# / Size	115008 / 100 µg
Clone	39-10-8
Regulatory Status	RUO
Other Names	MHC class II
Isotype	Mouse (C3H.SW) IgG3, κ
Description	The 39-10-8 antibody reacts with the I-A ^d 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 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

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	(C3H x BALB/c)F ₁ mouse cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Concentration	0.5 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	<p>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 ≤ 2.0 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® 488 has a maximum emission of 519 nm when it is excited at 488 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Application Notes	<p>Additional reported applications (for the relevant formats) include: immunofluorescence microscopy², 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>
Application References	<ol style="list-style-type: none">1. Hiramane C, <i>et al.</i> 1995. <i>Cell. Immunol.</i> 160:157.2. Wang Z, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:5924.3. Ma XT, <i>et al.</i> 2006. <i>Cancer Research</i> 66:1169.4. Norian LA and Allen PM. 2004. <i>J. Immunol.</i> 173:835. PubMed5. Tian C, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:6762.
(PubMed link indicates BioLegend citation)	
RRID	AB_493147 (BioLegend Cat. No. 115008)

Antigen Details

Structure	MHC class II
Distribution	B cell and activated T cells, APCs of H-2 ^d mice
Function	Antigen presentation
Ligand/Receptor	CD3/TCR, CD4
Cell Type	Antigen-presenting cells, B cells, T cells, Tregs
Biology Area	Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	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. 3. Wall KA, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:1056. 4. Ridgway WM, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 188:2267.
Gene ID	14961

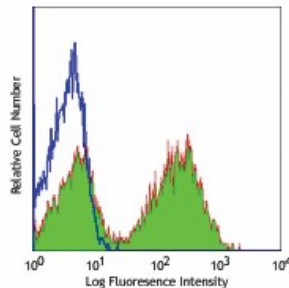
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse I-A^d, Biotin anti-mouse I-A^d, FITC anti-mouse I-A^d, Alexa Fluor® 488 anti-mouse I-A^d, Alexa Fluor® 647 anti-mouse I-A^d

Product Data



Balb/c mouse splenocytes stained with
39-10-8 Alexa Fluor® 488

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