

PerCP/Fire™ 780 anti-mouse CD8a Antibody

Catalog# / Size	162319 / 25 µg 162320 / 100 µg
Clone	S18018E
Regulatory Status	RUO
Other Names	T8, Lyt2, Ly-2
Isotype	Rat IgG2b, λ
Description	CD8, also known as Lyt-2, Ly-2, or T8, consists of disulfide-linked α and β chains that form the α(CD8a)/β(CD8b) heterodimer and α/α homodimer. CD8a is a 34 kD protein that belongs to the immunoglobulin family. The CD8 α/β heterodimer is expressed on the surface of most thymocytes and a subset of mature TCR α/β T cells. CD8 expression on mature T cells is non-overlapping with CD4. The CD8 α/α homodimer is expressed on a subset of γ/δ TCR-bearing T cells, NK cells, intestinal intraepithelial lymphocytes, and lymphoid dendritic cells. CD8 is an antigen co-receptor on T cells that interacts with MHC class I on antigen-presenting cells or epithelial cells. CD8 promotes T cell activation through its association with the TCR complex and protein tyrosine kinase lck.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse CD8a
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Fire™ 780 under optimal conditions.
Concentration	0.2 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	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 ≤ 0.12 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Fire™ 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
Excitation Laser	Blue Laser (488 nm)

Antigen Details

Structure	Ig superfamily, CD8a chain, 34 kD
Distribution	Most thymocytes, T cell subset, some NK cells, lymphoid dendritic cells
Function	Co-receptor for TCR
Ligand/Receptor	MHC class I molecule

Cell Type	Dendritic cells, NK cells, T cells, Thymocytes, Tregs
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Ledbetter JA, <i>et al.</i> 1979. <i>Immunol. Rev.</i> 47:63. (IHC, IP) 2. Hathcock KS. 1991. <i>Current Protocols in Immunology.</i> 3.4.1. (Deplete) 3. Takahashi K, <i>et al.</i> 1992. <i>P. Natl. Acad. Sci. USA</i> 89:5557. (Block, IP) 4. Ledbetter JA, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:1503. (Block) 5. Hata H, <i>et al.</i> 2004. <i>J. Clin. Invest.</i> 114:582. (IHC) 6. Fan WY, <i>et al.</i> 2001. <i>Exp. Biol. Med.</i> 226:1045. (IHC) 7. Shih FF, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:3438. (FC) 8. Kamimura D, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:306. 9. Bouwer HGA, <i>et al.</i> 2006. <i>P. Natl. Acad. Sci. USA</i> 103:5102. (FC, Deplete) 10. Kao C, <i>et al.</i> 2005. <i>Int. Immunol.</i> 17:1607. PubMed 11. Ko SY, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:3309. (FC) PubMed 12. Rasmussen JW, <i>et al.</i> 2006. <i>Infect. Immun.</i> 74:6590
Gene ID	12525

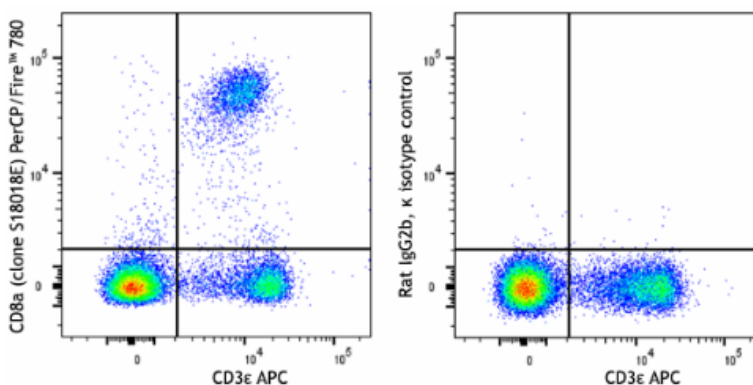
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD8a Antibody, PE anti-mouse CD8a, APC anti-mouse CD8a, APC/Fire™ 750 anti-mouse CD8a , PerCP/Cyanine5.5 anti-mouse CD8a, PE/Cyanine7 anti-mouse CD8a, FITC anti-mouse CD8a, Brilliant Violet 421™ anti-mouse CD8a, PerCP/Fire™ 806 anti-mouse CD8a, PerCP/Fire™ 780 anti-mouse CD8a Antibody, Brilliant Violet 750™ anti-mouse CD8a Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD8 ϵ (clone 145-2C11) APC and anti-mouse CD8a (clone S18018E) PerCP/Fire™ 780 (left) or rat IgG2b, κ PerCP/Fire™ 780 isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587