

PE anti-marmoset CD8 Antibody

Catalog# / Size	250304 / 100 µg
Clone	6F10
Regulatory Status	RUO
Other Names	T8, Leu2
Isotype	Mouse IgG1
Description	CD8a is a 32-34 kD type I glycoprotein. It forms a homodimer (CD8a/a) or heterodimer (CD8a/b) with CD8b. CD8, also known as T8 and Leu2, is a member of the immunoglobulin superfamily found on the majority of thymocytes, a subset of peripheral blood T cells, and NK cells (which express almost exclusively CD8a homodimers). CD8 acts as a co-receptor with MHC class I-restricted T cell receptors in antigen recognition and T cell activation and has been shown to play a role in thymic differentiation. Two domains in CD8a are important for function: the extracellular IgSF domain binds the α_3 domain of MHC class I and the cytoplasmic CXCP motif binds the tyrosine kinase p56 Lck.

Product Details

Verified Reactivity	Common Marmoset
Reported Reactivity	Squirrel Monkey
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Marmoset mononuclear cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE 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 ≤ 0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	The 6F10 antibody has been reported to cross-react with lymphocytes from squirrel monkeys but not from cynomolgus monkeys or humans. Additional reported applications for the relevant formats include: immunohistochemical staining of frozen spleen sections ¹ , Western blotting ¹ , immunoprecipitation ¹ .
Application References	1. Ito R, <i>et al.</i> 2008. <i>Immunol. Lett.</i> 121:116. (IHC, IP, WB)
(PubMed link indicates BioLegend citation)	
Product Citations	1. Gordeychuk IV, <i>et al.</i> 2019. <i>Acta Naturae.</i> 10:63. PubMed 2. Wang Y, <i>et al.</i> 2021. <i>Front Microbiol.</i> 12:701566. PubMed

Antigen Details

Structure	Ig superfamily, homodimer or heterodimer with CD8 β
Distribution	Majority of thymocytes, T cell subset, NK cells
Function	MHC class I co-receptor, thymic differentiation, T cell activation
Ligand/Receptor	MHC Class I molecules
Cell Type	NK cells, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Barclay N, <i>et al.</i> 1993. <i>The Leucocyte Antigen FactsBook</i> . Academic Press Inc. San Diego.
Gene ID	100387674

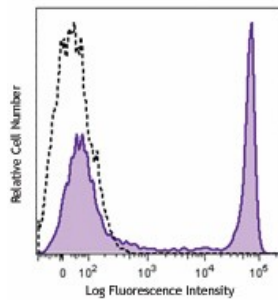
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-marmoset CD8, PE anti-marmoset CD8

Product Data



Marmoset peripheral blood lymphocytes were stained with CD8 (clone 6F10) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

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