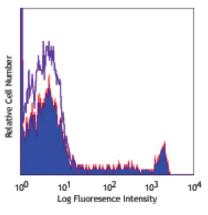


Product Data Sheet

PE/Cy7 anti-human CD8a

Catalog # / Size:	301012 / 100 tests	
Clone:	RPA-T8	
Isotype:	Mouse IgG1, κ	
Norkshop Number:	IV T171	
Reactivity:	Human, Cross-Reactivity: Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Sooty Mangabey	
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.	
polications.		



Human peripheral blood lymphocytes stained with RPA-T8 PE/Cy

icalioni Applications: FC - Quality tested

v

- Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.
 - Application Notes: The RPA-T8 antibody does not block the binding of HIT8a antibody to CD8a. Additional reported applications of this antibody (for the relevant formats) include: immunohistochemical staining of paraformaldehyde-fixed frozen sections³ and costimulation of T cell responses⁴. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 301018).

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References: 1. Knapp W, et al. Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.

- 2. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 3. Mack CL, *et al.* 2004. *Pediatr. Res.* 56:79. (IHC)

 - 4. Magidovich E, et al. 2007. P. Natl. Acad. Sci. USA 104:13022.
 - 5. Thakarl D, *et al.* 2008.*J. immunol.* 180:7431. PubMed 5. Kmieciak M, *et al.* 2009. *J. Transl. Med.* 7:89. (FC) PubMed
 - 6. Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed
 - 7. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
 - 8. Rout N, et al. 2010. PLoS One 5:e9787. (FC)

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.

Antigen References: 1. Barclay N, et al. 1993. The Leucocyte Antigen FactsBook. Academic Press Inc. San Diego.

Related Products: Product	Clone	Application
PE/Cy7 anti-human CD4	RPA-T4	FĊ
PE anti-human CD3	UCHT1	FC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFĆ
PE anti-human CD56 (NCAM)	MEM-188	FC
PE/Cy7 anti-human CD3	HIT3a	FC
PE/Cy7 anti-human CD8a	HIT8a	FC
PE/Cy7 Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Soluti	ion)	FC, ICC, ICFC



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