

Product Data Sheet

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Log Fluoresence Intensity

Human peripheral blood lymphocytes stained with biotinylated RPA-T8,

followed by Sav-PE

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103

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100

Biotin anti-human CD8a

Catalog # / Size: 301003 / 25 µg

301004 / 100 µg

Clone: RPA-T8

Isotype: Mouse IgG1, κ

Workshop 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

biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. Do not freeze.

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent 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.

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).

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

Application Notes: The RPA-T8 antibody does not block the binding of HIT8a antibody to CD8a. Additional reported applications of this

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	Cione	Application
Biotin anti-human CD3	HIT3a	FĊ .
Biotin anti-human CD8a	HIT8a	FC
Biotin anti-human CD4	RPA-T4	FC
Biotin anti-human CD3	UCHT1	FC
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
APC Streptavidin		FC, ICFC
APC/Cy7 Streptavidin		FC, ICFC
FITC Streptavidin		FC, ICFC
HRP Streptavidin		ELÍSA, ELISPOT, IHC, WB
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		FC, ICFC
PE/Cy7 Streptavidin		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFĆ
FITC anti-human CD56 (NCAM)	MEM-188	FC



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