

Product Data Sheet

PerCP anti-human CD8a

Catalog # / Size: 301029 / 25 tests

301030 / 100 tests

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

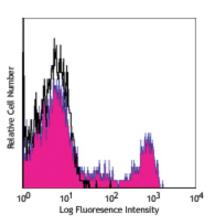
and unconjugated antibody.

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

0.2% (w/v) BSA (origin USA)

Storage: The CD8a antibody solution should be stored undiluted at 4°C, and protected

from prolonged exposure to light. Do not freeze.



Human peripheral blood lymphocytes stained with RPA-T8 PerCF

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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.

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).

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)

Magidovich E, et al. 2007. P. Natl. Acad. Sci. USA 104:13022.
Thakarl D, et al. 2008. J. immunol. 180:7431. PubMed
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.

Application Related Products: Product Clone FC, ICC, ICFC FC, ICFC Cell Staining Buffer

RBC Lysis Buffer (10X) PerCP Mouse IgG1, κ Isotype Ctrl FC, ICFC MOPC-21 Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC



