

Product Data Sheet

PE/Cy5 anti-human CD8a

Catalog # / Size: 300909 / 25 tests
300910 / 100 tests

Clone: HIT8a

Isotype: Mouse IgG1, κ

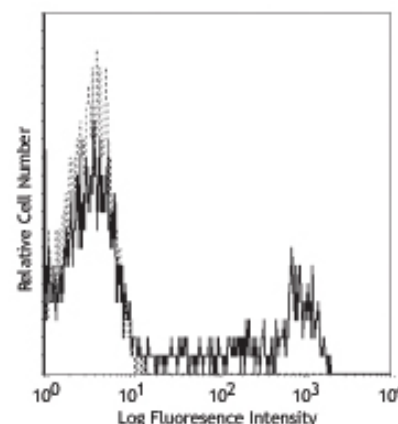
Workshop Number: V CD08.10

Reactivity: Human, **Cross-Reactivity:** Chimpanzee

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 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.**



Human peripheral blood lymphocytes stained with HIT8a FITC

Applications:

Applications: FC - Quality tested

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 μ l to 5 μ l 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: Clone HIT8a recognizes the alpha chain of CD8⁵. It does not block the binding of RPA-T8 antibody to CD8a.

Additional reported applications of this antibody (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections^{5,6}.

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- Application References:**
- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
 - Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
 - Barclay N, *et al.* 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.
 - Awasthi, S., *et al.* 2011. *J. Virol* 85:10472. PubMed
 - Coppieters KT, *et al.* 2012. *J. Exp. Med.* 209:51. (IHC, epitope)
 - Suzuki F, *et al.* 2012. *Arthritis Res. Ther.* 14:R48. (IHC)

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/Cy5 anti-human CD3	HIT3a	FC
PE/Cy5 anti-human CD4	RPA-T4	FC
PE/Cy5 anti-human CD8a	RPA-T8	FC
PE/Cy5 anti-human CD3	UCHT1	FC
PE/Cy5 Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
PE/Cy5 anti-human CD56 (NCAM)	MEM-188	FC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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