Product Data Sheet

PE anti-human CD8a

Catalog # / Size:	2104540 / 100 tests 2104535 / 25 tests	
Clone:	HIT8a	l h
Isotype:	Mouse IgG1, κ	Relative Coll Number
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	10 ⁰ 10 ¹ 10 ² 10 ³ 10 ⁴ Log Fluoresence Intensity Human peripheral blood
Workshop Number:	V CD08.10	lymphocytes stained with HIT8a PE
Concentration:	Lot-specific	

Applications:

Applications:	Flow Cytometry
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 microL to 5 microL per test . Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Clone HIT8a recognizes the α 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} . This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue.
Application References:	 Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York. Barclay N, <i>et al.</i> 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego. Awasthi, S., <i>et al.</i> 2011. <i>J. Virol</i> 85:10472. <u>PubMed</u> Coppieters KT, <i>et al.</i> 2012. <i>J. Exp. Med.</i> 209:51. (IHC, epitope) Suzuki F, <i>et al.</i> 2012. <i>Arthritis Res. Ther.</i> 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:

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

the extracellular IgSF domain binds the α_3 domain of MHC class I and the cytoplasmic CXCP motif binds the tyrosine kinase p56 Lck.

Antigen1. Barclay N, et al. 1993. The Leucocyte Antigen FactsBook. Academic Press Inc.References:San Diego.