Brilliant Violet 510[™] anti-human CD8a

Catalog # / Size:	2104670 / 100 tests 2104665 / 25 tests	
Clone:	HIT8a	Δ
lsotype:	Mouse IgG1, κ	Human peripheral bloodlymphocytes were stained withCD8a (clone HIT8a) BrilliantViolet 510TM (filled histogram) orMouse IgG1, K Brilliant Violet510TM (open histogram).
Immunogen:	Rat T cell blasts from mixed lymphocyte reactions	
Reactivity:	Human, Non-human primate	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 510 [™] and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	
Workshop Number:	V CD08.10	
Concentration:	Lot-specific	

Applications:

Applications:	Flow Cytometry
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Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.

Brilliant Violet 510[™] excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510[™] is a trademark of Sirigen Group Ltd.

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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}. 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: 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, <i>et al.</i> 1993. The Leucocyte Antigen FactsBook. Academic Press Inc. San Diego.

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