

Product Data Sheet

Pacific Blue™ anti-human CD8a

Catalog # / Size: 300927 / 25 tests

300928 / 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

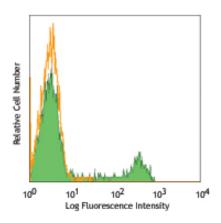
Pacific Blue[™] under optimal conditions. The solution is free of unconjugated

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 Pacific Blue™

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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

> * Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Pacific Blue™ is a registered trademark of Molecular Probes, Inc. Pacific Blue™ dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

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}.

Application References:

- 1. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- 2. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
- 3. Barclay N, et al. 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.
- 4. Awasthi, S., et al. 2011. J. Virol 85:10472. PubMed 5. Coppieters KT, et al. 2012. J. Exp. Med. 209:51. (IHC, epitope)
- 6. Suzuki F, et al. 2012. Arthritis Res. Ther. 14:R48. (IHC)

Related Products: Product

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.

Pacific Blue™ Mouse IgG1, κ Isotype Ctrl

Cell Staining Buffer

RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone MOPC-21

Application FC, ICFC FC, ICC, ICFC FC, ICFC

FC, ICC, ICFC



