

Product Data Sheet

102

Log Fluoresence Intensity

Human peripheral blood lymphocytes stained with purified HIT8a, followed

103

104

Relative Cell Number

100

101

by anti - mouse IgGs FITC

Purified anti-human CD8a

Catalog # / Size: 300901 / 25 µg

300902 / 100 µg

Clone: HIT8a

Isotype: Mouse IgG1, κ Workshop Number: V CD08.10

Reactivity: Human, Cross-Reactivity: Chimpanzee

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - Quality tested

IHC - Reported in the literature

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.

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)

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

HIT3a	FĊ, IHC, IP
RPA-T4	FC, IHC, CyTOF®
RPA-T8	FC, IHC, CVTOF®
UCHT1	FC, IHC, IP, WB, CyTOF®
MOPC-21	FC, ICFC, ICC, IF, IHC, IP, WB
Polv4053	ELÍSA, WB, IHC
Poly4053	FC
Poľv4053	FC, ELISA, IHC, IF, WB
	FC,
Poľv4053	ELISA, IHC, WB
Poľv4053	FC '
,	FC, ICC, ICFC
	FC, ICFĆ
MEM-188	FC, IHC, IP, WB
	RPA-T4 RPA-T8 UCHT1 MOPC-21 Poly4053 Poly4053 Poly4053 Poly4053 Poly4053 Poly4053



