

Product Data Sheet

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Log Fluoresence Intensity

103

104

Biotin anti-human CD8a

Catalog # / Size:	300903 / 25 μg 300904 / 100 μg		
Clone:	HIT8a		
Isotype:	Mouse IgG1, κ		
Workshop Number:	V CD08.10	aqu	
Reactivity:	Human, Cross-Reactivity: Chimpanzee	R	
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.	elative Cell	Ŵ
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	Ъ.	ll"
Concentration:	0.5 mg/ml		
Storage:	The antibody solution should be stored undiluted at 4°C. Do not freeze.		
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Applications:

FC - Quality tested		Human peripheral blood lymphocytes stained with biotinylated HIT8a, followed by Sav-PE	
staining with flow cytometric analysis. For immunofluoresce suggested use of this reagent is ≤0.125 µg per million cells	ent staining, the in 100 µl volume.		
Clone HIT8a recognizes the alpha chain of CD8 ⁵ . 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} .			
 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. PubMed 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) 			
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.			
: 1. Barclay N, et al. 1993. The Leucocyte Antigen FactsBook. Academic Press Inc. San Diego.			
: Product PE Streptavidin Cell Staining Buffer RBC Lysis Buffer (10X) Human TruStain FcX™ (Fc Receptor Blocking Solution) Biotin Mouse IgG1, κ Isotype Ctrl	Clone MOPC-21	Application FC, ICFC FC, ICC, ICFC FC, ICFC FC, ICC, ICFC FC, ICFC	
	Each lot of this antibody is quality control tested by immuno staining with flow cytometric analysis. For immunofluoresce suggested use of this reagent is ≤0.125 µg per million cells It is recommended that the reagent be titrated for optimal p each application. Clone HIT8a recognizes the alpha chain of CD8 ⁵ . It does n Additional reported applications of this antibody (for the rele acetone-fixed frozen tissue sections ^{5,6} . 1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Ox 2. Knapp W. 1989. Leucocyte Typing IV. Oxford University 3. Barclay N, <i>et al.</i> 1997. The Leucocyte Antigen Facts Boo 4. Awasthi, S., <i>et al.</i> 2011. <i>J. Virol</i> 85:10472. PubMed 5. Coppieters KT, <i>et al.</i> 2012. <i>J. Exp. Med.</i> 209:51. (IHC, ef 6. Suzuki F, <i>et al.</i> 2012. <i>Arthritis Res. Ther.</i> 14:R48. (IHC) CD8a is a 32-34 kD type I glycoprotein. It forms a homodim also known as T8 and Leu2, is a member of the immunoglo subset of peripheral blood T cells, and NK cells (which expi co-receptor with MHC class I-restricted T cell receptors in a shown to play a role in thymic differentiation. Two domains domain binds the α ₃ domain of MHC class I and the cytopla 1. Barclay N, <i>et al.</i> 1993. The Leucocyte Antigen FactsBool :Product PE Streptavidin Cell Staining Buffer RBC Lysis Buffer (10X)	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 $\leq 0.125 \ \mu g$ per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application. Clone HIT8a recognizes the alpha chain of CD8 ⁵ . It does not block the binding of Additional reported applications of this antibody (for the relevant formats) include acetone-fixed frozen tissue sections ^{5,6} . 1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press 2. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York. 3. Barclay N, <i>et al.</i> 2011. <i>J. Virol</i> 85:10472. PubMed 5. Coppieters KT, <i>et al.</i> 2012. <i>J. Exp. Med.</i> 209:51. (IHC, epitope) 6. Suzuki F, <i>et al.</i> 2012. <i>Arthritis Res. Ther.</i> 14:R48. (IHC) CD8a is a 32-34 kD type I glycoprotein. It forms a homodimer (CD8a/a) or heteralso known as T8 and Leu2, is a member of the immunoglobulin superfamily four subset of peripheral blood T cells, and NK cells (which express almost exclusive co-receptor with MHC class I-restricted T cell receptors in antigen recognition ar shown to play a role in thymic differentiation. Two domains in CD8a are importar domain binds the α_3 domain of MHC class I and the cytoplasmic CXCP motif bir 1. Barclay N, <i>et al.</i> 1993. The Leucocyte Antigen FactsBook. Academic Press In Product Clone	

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