

Mouse Anti-Human CD8A Monoclonal Antibody

Cat. No. CABTT-003MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Mouse

Product Overview Mouse monoclonal antibody to Human CD8A.

Antigen Description

The OKT8 monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 β chain (CD8 $\alpha\beta$) or as a homodimer (CD8 $\alpha\alpha$). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T-cell development and activation of mature T cells. Preliminary testing indicates that OKT8 and two other mouse anti-human CD8 antibodies (clone RPA-T8, Cat. No.14-0088 and clone HIT8a, Cat. No.14-0089) do not compete with each other for binding to human peripheral blood leukocytes by flow cytometric analysis, suggesting that they do not bind to similar epitopes or block each other by steric hindrance.

Clone PLU9

Host animal Mouse

Cross Reactivity Human

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Isotype	IgG2a	
Concentration	0.5 mg/ml	
Application	FCM	
Form	aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer	
Storage	Store at 2-8°C	
nullValue_other	Function	MHC class I protein binding; coreceptor activity; protein binding; protein homodimerization activity; protein kinase binding

GENE INFORMATION

Gene Name	CD8A CD8a molecule [Homo sapiens]
Official Symbol	CD8A
Synonyms	CD8A; CD8a molecule; CD8; MAL; p32; Leu2; T-cell surface glycoprotein CD8 alpha chain; T8 T-cell antigen; T cell co-receptor; OKT8 T-cell antigen; T-cell antigen Leu2; Leu2 T-lymphocyte antigen; CD8 antigen, alpha polypeptide (p32); T-lymphocyte differentiation antigen T8/Leu-2; CD 8B; CD8B; CD8b antigen; CD8b antigen isoform 2; CD8b molecule; CD8B protein; CD8B1; Ly3; LYT3; MGC119115
Gene ID	925
mRNA Refseq	NM_001768
Protein Refseq	NP_001759

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MIM	186910
UniProt ID	P01732
Chromosome Location	2p12
Pathway	Adaptive Immune System; Antigen processing and presentation; Cell adhesion molecules (CAMs); Hematopoietic cell lineage; IL12-mediated signaling events; Primary immunodeficiency; T cell receptor signaling pathway; TCR signaling in naive CD8+ T cells

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