



Mouse Anti-Human CD8 α Monoclonal antibody, clone OKT-8 (CABT-L4355)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The OKT-8 monoclonal antibody reacts with human CD8 α . The CD8 antigen is a transmembrane glycoprotein that acts as a co-receptor for the T cell receptor (TCR). Like the TCR, CD8 binds to class I MHC molecules displayed by antigen presenting cells (APC).

Target	Human CD8 α
Immunogen	Human CD8 α
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	OKT-8
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD8+ T cell depletion in humanized mice
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg

Buffer	PBS, pH 6.0 0.01% Tween. Contains no stabilizers or preservatives. [low endotoxin azide-free]
	Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay
	Related dilution buffer: CABT-LB03
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The OKT-8 monoclonal antibody reacts with human CD8α. The CD8 antigen is a transmembrane glycoprotein that acts as a co-receptor for the T cell receptor (TCR). Like the TCR, CD8 binds to class I MHC molecules displayed by antigen presenting cells (APC). CD8 is primarily expressed on the surface of cytotoxic T cells, but can also be found on thymocytes, natural killer cells, and some dendritic cell subsets. CD8 most commonly exists as a heterodimer composed of one CD8α and one CD8β chain however, it can also exist as a homodimer composed of two CD8α chains. Both the CD8α and CD8β chains share significant homology to immunoglobulin variable light chains. The molecular weight of each CD8 chain is approximately 34 kDa. The OKT-8 antibody does not block the binding of the anti-human CD8α antibodies RPA-T8 and HIT8a.
Keywords	CD8A;CD8a molecule;T-cell surface glycoprotein CD8 alpha chain;CD8 antigen, alpha polypeptide (p32);

GENE INFORMATION

Official Symbol	CD8a molecule
Synonyms	CD8A; CD8a molecule; T-cell surface glycoprotein CD8 alpha chain; CD8 antigen, alpha polypeptide (p32);