



Rat Anti-Mouse CD8β (Lyt 3.2) Monoclonal antibody, clone 53-5.8 (CABT-L4319)

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

PRODUCT INFORMATION

Product Overview

The 53-5.8 monoclonal antibody reacts with mouse CD8β also known as Lyt 3.2. 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 53-5.8 antibody has been shown to deplete CD8+ T cells completely but not deplete CD8+ CD11c+ dendritic cells when used in vivo.

Target	Mouse CD8β (Lyt 3.2)
Immunogen	Mouse thymus or spleen
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	53-5.8
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD8+ T cell depletion, in vitro CD8 blockade, IF

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 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/ μ g). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
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	a marker for cytotoxic T cells; involved in cell-cell interactions [RGD, Feb 2006]
Keywords	CD8B;CD8b molecule;Cd8b1;T-cell surface glycoprotein CD8 beta chain;OX-8 membrane antigen;CD8 antigen beta-chain;CD8 antigen, beta chain;CD8 antigen, beta-chain;CD8 antigen 37 kDa chain;

GENE INFORMATION

Official Symbol	CD8b molecule
Synonyms	CD8B; CD8b molecule; Cd8b1; T-cell surface glycoprotein CD8 beta chain; OX-8 membrane antigen; CD8 antigen beta-chain; CD8 antigen, beta chain; CD8 antigen, beta-chain; CD8 antigen 37 kDa chain;
References	Guillerey, C., et al. (2015). "Immunosurveillance and therapy of multiple myeloma are CD226 dependent." <i>J Clin Invest</i> 125(5): 2077-2089. PubMed;