



# Rat Anti-Mouse CD8 $\beta$ (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 CD8 $\beta$  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 CD8 $\alpha$  and one CD8 $\beta$  chain however, it can also exist as a homodimer composed of two CD8 $\alpha$  chains. Both the CD8 $\alpha$  and CD8 $\beta$  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.

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

<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	PBS, pH 7.0. 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-LB04
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	a marker for cytotoxic T cells; involved in cell-cell interactions [RGD, Feb 2006]
<b>Keywords</b>	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

<b>Official Symbol</b>	CD8b molecule
<b>Synonyms</b>	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;
<b>References</b>	Guillerey, C., et al. (2015). "Immunosurveillance and therapy of multiple myeloma are CD226 dependent." J Clin Invest 125(5): 2077-2089. PubMed;