

# Mouse CD8b.2 Antibody

Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

## Product Information

Product No.: C2832

Clone: 53-5.8

RRID: AB\_2737471

Isotype: Rat IgG1  $\kappa$

Storage: Sterile 2-8°C

## Product Description

### Specificity:

Clone 53-5.8 recognizes an epitope on mouse CD8b.2.

### Antigen Distribution:

CD8b.2 is expressed on the majority of thymocytes and cytotoxic T cell subsets.

### Background:

CD8 is made up of disulfide-linked  $\alpha$  and  $\beta$  chains that form the  $\alpha$ (CD8a)/ $\beta$ (CD8b) heterodimer and  $\alpha/\alpha$  homodimer. CD8 is part of the Ig superfamily that expresses primarily as CD8a homodimers. CD8a is a 32-34 kD type I glycoprotein that can also form heterodimers with CD8b. CD8 is an antigen co-receptor on T cells that mediates efficient cell to cell interactions within the immune system. CD8 coupled with the T cell receptor on the T lymphocyte recognizes an antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The CD8 co-receptor also plays a role in T cell signaling by interacting with Lck (lymphocyte-specific protein tyrosine kinase) which leads to the activation of transcription factors that affect the expression of certain genes.

### Known Reactivity Species:

Mouse

### Format:

Purified *in vivo* GOLD™ Functional Grade

### Immunogen:

Mouse thymus or spleen

## Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

## Purity

≥95% monomer by analytical SEC, >95% by SDS Page

## Endotoxin

< 1.0 EU/mg as determined by the LAL method

## Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

**Avoid Repeated Freeze Thaw Cycles.**

## Product Datasheet

[www.leinco.com](http://www.leinco.com)

### Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

### Applications

#### Applications and Recommended Usage (Quality Tested By Leinco):

##### WB

**FC** The suggested concentration for this 53-5.8 antibody for staining cells in flow cytometry is  $\leq 0.25 \mu\text{g}$  per  $10^6$  cells in a volume of 100  $\mu\text{l}$ . Titration of the reagent is recommended for optimal performance for each application.

#### Other Applications Reported in Literature:

##### ICC

##### Depletion

##### FA

#### Country of Origin

USA