

Product Datasheet

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Anti-Mouse CD8a (Ly 2) (All Alleles) Purified Monoclonal Antibody

Product Information

Product No.: C215
Clone: 53-6.7
RRID: AB_2829233
Isotype: Rat IgG2a
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 53-6.7 recognizes Lyt 2.

Antigen Distribution:

Lyt 2 is present on the surface of most thymocytes and a subpopulation of mature T-lymphocytes which include most T suppressor/cytotoxic cells.

Background:

CD8 is made up of disulfide-linked α and β chains that form the α (CD8a)/ β (CD8b) heterodimer and α/α 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

Immunogen:

Mouse thymus or spleen

Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

Storage and Stability

This purified antibody is stable when stored at 2-8°C. **Do not freeze.**

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

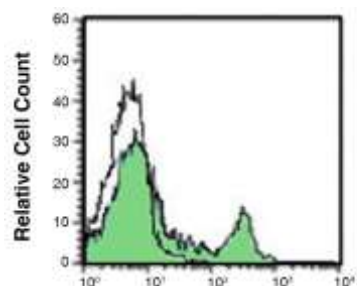
FC The suggested concentration for this 53-6.7 antibody for staining cells in flow cytometry is $\leq 0.25 \mu\text{g}$ per 10^6 cells in a volume of 100 μl . Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

IHC The suggested concentration for this 53-6.7 antibody in IHC staining on frozen tissue is $\leq 5.0 - 10 \mu\text{g}$ per ml. Titration of the reagent is recommended for optimal performance for each application. This product has also been shown to be useful in paraffin sections.

Country of Origin

USA



Staining of C57 splenocytes with 0.1 μg of Rat IgG2a Isotype Control (open histogram) or 0.1 μg of Purified Rat Anti-CD8a clone 53-6.7 (green histogram) followed by Goat F(ab')₂ Anti-Rat IgG (H&L)-FITC (Leinco Prod. No.: R120).

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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References

1. Jay Reddy, *et al.* (2017) *J Immunol* 2018; 200:523-537 [Journal Link](#)
2. Nakayama, K. *et al.* (1994) *Science* **263**:1131
3. Ledbetter, J. A. *et al.* (1979) *Immunol. Rev.* **47**:63
4. Ledbetter, J. A. *et al.* (1980) *J. Exp. Med.* **152**:280
5. Van Ewijk, *et al.* (1981) *J. Immunol.* **127**:2594

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