

Product Datasheet

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Anti-Mouse CD8 [Clone YTS-169] — Purified *in vivo* PLATINUM™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C2850
Clone:	YTS-169
RRID:	AB_2829606
Isotype:	Rat Rat IgG2b κ
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone YTS-169 recognizes mouse CD8.

Antigen Distribution:

CD8 is expressed on blood lymphocytes, a subset of NK cells, and thymocytes. Persons with HIV exhibit increased levels of CD8+ lymphocytes.

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 *in vivo* Functional Grade, *in vivo* PLATINUM™

Immunogen:

CBA mouse thymocytes

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.

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

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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

≥98% monomer by analytical SEC, >95% by SDS Page

Endotoxin

<0.5 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 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.

Pathogen Testing

To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's Purified Functional PLATINUM™ antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this YTS-169 antibody for staining cells in flow cytometry is ≤ 0.2 µg per 10⁶ cells in a volume of 100 µl. Titration of the reagent is recommended for optimal performance for each application.

WB The suggested concentration for this YTS-169 antibody for use in western blotting is 1-10 µg/ml.

Other Applications Reported in Literature:

IHC (Frozen)

Depletion

Country of Origin

USA

References

1. Parnes, J. R. et al. (1989) Adv. Immunol. 44:265
2. Reinherz, E. L. et al. (1980) J. Immunol. 124:1301
3. Fischer, A. et al. (1983) Immunology 48:177

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4. Merckenschlanger, M. et al. (1988) Eur. J. Immunol. 18:1653
5. Leukocyte Typing: 3rd Workshop: Code No. 567; 4th Workshop: Code No. N31

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