

Product Datasheet

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Anti-Mouse CD137 (4-1BB) Purified *in vivo* PLATINUM™ Functional Grade Monoclonal Antibody

Product Information

Product No.: C2835
Clone: 3H3
RRID: AB_2829593
Isotype: Rat IgG2a
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 3H3 recognizes an epitope on mouse 4-1BB.

Antigen Distribution:

4-1BB is expressed on activated B cells and T cells, macrophages, and dendritic cells.

Background:

4-1BB (CD137) is a 39 kD transmembrane protein that is a member of the tumor necrosis factor (TNF) receptor family and is a co-stimulatory molecule that plays a role in T-cell-mediated proliferative response. When binding its ligand, CD137 provides costimulatory signals to both CD4 and CD8 T cells via the activation of NF- κ B, c-Jun and p38 downstream pathways. Crosslinking of CD137 boosts T cell proliferation, IL-2 secretion, survival and cytolytic activity. Furthermore, it can increase immune activity to eliminate tumors in mice. Agonistic anti-CD137 antibodies have been reported to stimulate a more intense immune system attack on cancers.

Known Reactivity Species:

Mouse

Format:

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

Immunogen:

Recombinant Mouse CD137 human Fc fusion protein

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

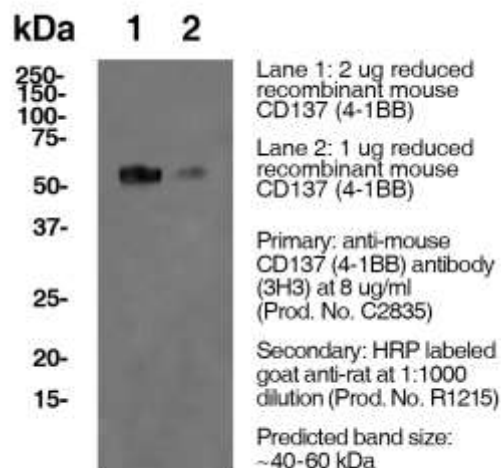
≥98% monomer by analytical SEC, >95% by SDS Page

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.**



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

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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):

WB

ELISA

Other Applications Reported in Literature:

in vivo 4-1BB stimulation

in vitro 4-1BB stimulation

Country of Origin

USA

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