

# Product Datasheet

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

### Product Information

**Product No.:** C2830  
**Clone:** 3H3  
**RRID:** AB\_2737470  
**Isotype:** Rat IgG2a  $\kappa$   
**Storage:** Sterile 2-8°C

### Product Description

#### Specificity:

4-1BB antibody (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- $\kappa$ 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 4-1BB antibodies have been reported to stimulate a more intense immune system attack on cancers.

#### Known Reactivity Species:

Mouse

#### Format:

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

#### 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

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

#### Endotoxin

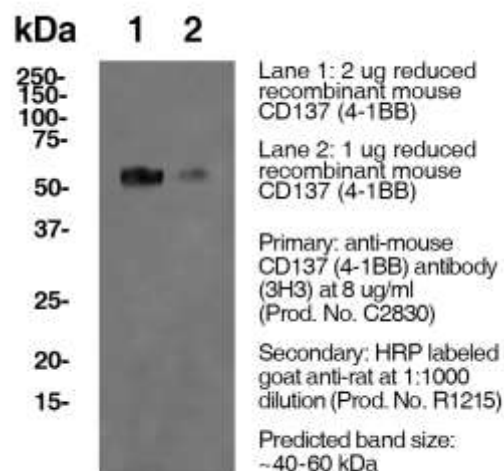
< 1.0 EU/mg as determined by the LAL method

#### 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 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.



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

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## 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

## References

1. Shan B et al. (2008) Cell Mol Immunol. 5: 379
2. Kwan BS et al. (1996) Cell Immunol. 169: 91
3. Kwan BS et al. (1998) Eur J Immunol. 28: 881
4. Kwan BS et al. (2009) J Immunol. 182: 4107

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