

# Product Datasheet

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## Anti-Mouse CD28 (Clone 37.51) Purified *in vivo* PLATINUM™ Functional Grade Monoclonal Antibody

### Product Information

**Product No.:** C1658  
**Clone:** 37.51  
**RRID:** AB\_2828714  
**Isotype:** Syrian Hamster IgG  
**Storage:** Sterile 2-8°C

### Product Description

#### Specificity:

Clone 37.51 recognizes an epitope on mouse CD28.

#### Antigen Distribution:

CD28 is expressed on thymocytes, CD4+, CD8+ peripheral T cells, NK cells.

#### Background:

CD28 is a 44 kD glycoprotein and a member of the Ig superfamily. In its capacity as a costimulatory receptor, CD28 produces co-stimulatory signals necessary for T cell activation and survival. CD28 is the only B7 receptor constitutively expressed on naive T cells. Without having this CD28/B7 interaction, T cells will fail to respond to their specific antigen when coming in contact with an MHC/antigen complex and thus, are said to be anergic.

#### Known Reactivity Species:

Mouse

#### Format:

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

#### Immunogen:

C57BL/6 mouse T-cell lymphoma EL-4

#### Formulation

This monoclonal antibody is aseptically packaged and formulated in 20 mM L-histidine and 150 mM NaCl buffer, pH 5.9-6.1 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

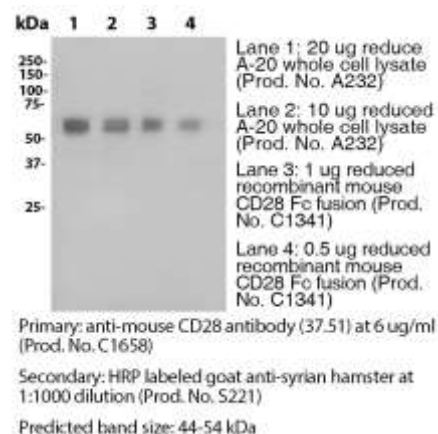
<0.5 EU/mg as determined by the LAL method

#### 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.**

#### 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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## 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 37.51 antibody for staining cells in flow cytometry is  $\leq 1.0 \mu\text{g}$  per  $10^6$  cells in a volume of 100  $\mu\text{l}$ . Titration of the reagent is recommended for optimal performance for each application.

**WB** The suggested concentration for this 37.51 antibody for use in western blotting is 1-10  $\mu\text{g/ml}$ .

### Other Applications Reported in Literature:

CyTOF®

IHC (Frozen)

B

Costim

IP

## References

1. Gallimore, A. *et al.* (2005) *J Immunol.* **175**(11):7098-102. [PubMed](#)
2. Gross, J. A. *et al.* (1992) *J. Immunol.* **149**:380

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