

Product Datasheet

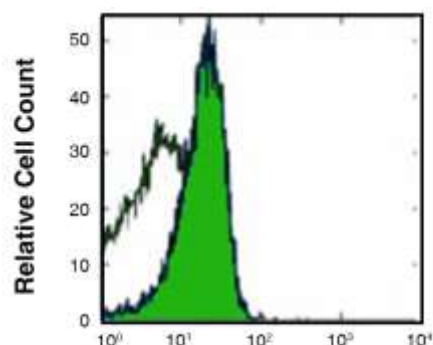
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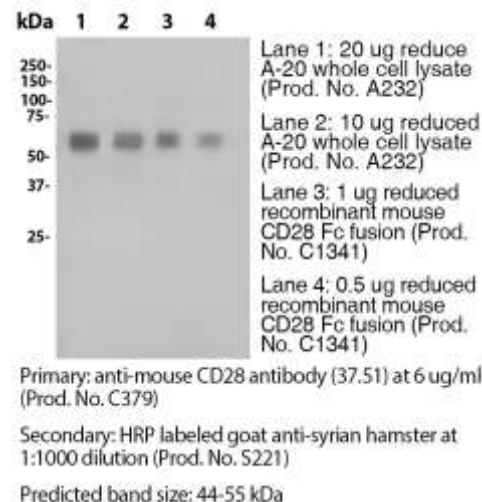
Anti-Mouse CD28 (Clone 37.51) Purified *in vivo* GOLD™ Functional Grade Monoclonal Antibody

Product Information

Product No.: C379
Clone: 37.51
RRID: AB_2737482
Isotype: Syrian Hamster IgG
Storage: Sterile 2-8°C



Staining of BALB/c thymocytes with Anti-Mouse CD28-Purified (green histogram) or Syrian Hamster IgG Isotype Control-Purified (open histogram) followed by Anti-Syrian Hamster IgG-FITC (Leinco Prod. No.: S229).



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:

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

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

≥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.**

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

410 Axminister Dr, St. Louis, MO 63026

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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.

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 μl . 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

Cosim

IP

Country of Origin

USA

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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