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## Anti-Mouse CD137 (4-1BB) Functional Grade Purified

**Catalog Number:** 16-1371

**Also Known As:** Ly-63, TNFRSF9, ILA

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Anti-Mouse CD137 (4-1BB) Functional Grade Purified

**Formulation:** aqueous buffer, no sodium azide

 **Catalog Number:** 16-1371



**Temperature Limitation:** Store at 2-8°C.

**Clone:** 17B5



**Batch Code:** Refer to Vial

**Concentration:** 1 mg/mL



**Use By:** Refer to Vial

**Host/Isotype:** Golden Syrian Hamster IgG

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

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### Description

The 17B5 monoclonal antibody reacts with mouse CD137, also known as 4-1BB, a member of the TNFR superfamily. CD137 is expressed as monomers, dimers, and tetramers on the surface of activated T cells around day 4-6 after activation through the TCR complex. Interaction of CD137 with its ligand, 4-1BBL, is reported to deliver a costimulatory signal important in the T-APC interaction. Recent data suggests CD137 is expressed on Tregs and may play a role in their proliferation. The monoclonal antibody 17B5 has strong antagonistic effect in *in vitro* functional assays.

### Applications Reported

This 17B5 antibody has been reported for use in flow cytometric analysis and functional assays.

### Applications Tested

The 17B5 antibody has been tested by flow cytometric analysis of activated mouse splenocyte cultures. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Zheng G, Wang B, Chen A. The 4-1BB costimulation augments the proliferation of CD4+CD25+ regulatory T cells. *J Immunol.* 2004 Aug 15;173(4):2428-34. (**17B5**, FA, PubMed)

### Related Products

11-4211 Anti-Golden Syrian Hamster IgG FITC (Polyclonal)

16-4914 Golden Syrian Hamster IgG Isotype Control Functional Grade Purified (n/a)

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