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Product Information

Contents: Phycoerythrin (PE) anti-mouse CD30
Catalog Number: 12-0301
Sizes: 50 ug, 100 ug, 200 ug
Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN_3
Storage Conditions: Store at 4°C.
DO NOT FREEZE.
LIGHT-SENSITIVE MATERIAL.
Clone: mCD30.1
Isotype: Armenian Hamster IgG

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-0301	PE anti-mouse CD30	488	575	FC
13-0301	Biotin anti-mouse CD30	N/A	N/A	FC
14-0301	Affinity Purified anti-mouse CD30	N/A	N/A	FA FC
16-0301	Functional Grade* Purified anti-mouse CD30	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The mCD30.1 monoclonal antibody reacts with mouse CD30, a 105-120 kDa member of the TNFR superfamily. CD30 is not detectable on splenocytes, but can be upregulated on T cells stimulated *in vitro* through TCR with a peak expression around day 4-5 post-activation. CD30 is expressed by both $CD8^+$ and $CD4^+$ activated cells. It is suggested that CD30 regulates cytokine secretion by T cells and has a role in T cell development.

Usage

For research use only, not for diagnostic or therapeutic use. The mCD30.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The mCD30.1 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocyte suspensions. This can be used at less than or equal to 0.5 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 13-0301 Biotin anti-mouse CD30 (clone mCD30.1)
Cat. 14-0301 Affinity Purified anti-mouse CD30 (clone mCD30.1)
Cat. 16-0301 Functional Grade Purified anti-mouse CD30 (clone mCD30.1)
Cat. 12-4914 Phycoerythrin (PE) Golden Syrian Hamster IgG Isotype Control (clone n/a)

References

Bowen, M. A., R. K. Lee, et al. (1996). "Structure and expression of murine CD30 and its role in cytokine production." J Immunol 156 (2): 442-9.