

CD28 Monoclonal Antibody (37.51), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Syrian hamster / IgG
Recommended Isotype Control	Syrian Hamster IgG Isotype Control, Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	37.51
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468921

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	55 Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (FN)	Assay-Dependent	76 Publications
T-Cell Activation (TCA)	-	5 Publications
In vitro Assay (IV)	-	9 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Description: The 37.51 monoclonal antibody reacts with the mouse CD28 molecule, a 45 kDa homodimer expressed by thymocytes, mature T cells and NK cells. CD28 is a ligand for CD80 (B7-1) and CD86 (B7-2) and is a potent costimulator of T cells. Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells.

Applications Reported: The 37.51 antibody has been reported for use in flow cytometric analysis. 37.51 has also been reported in costimulation of T cells in vitro and in vivo .

Applications Tested: The 37.51 antibody has been tested by flow cytometric analysis of mouse splenocytes. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

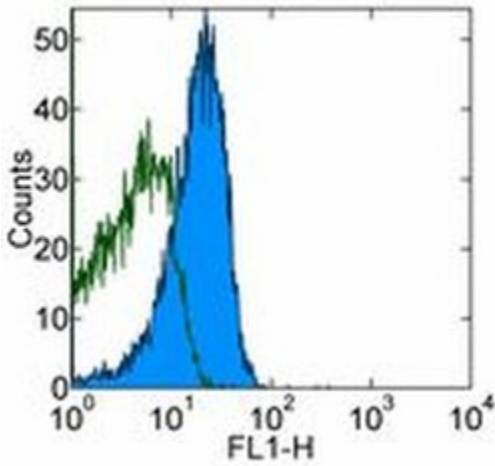
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

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

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD28 Monoclonal Antibody (37.51), Functional Grade, eBioscience™



CD28 Antibody (16-0281-82) in Flow

Staining of BALB/c thymocytes with 0.25 µg of Golden Syrian Hamster IgG Isotype Control Functional Grade Purified (Product # 16-4914-85) (open histogram) or 0.25 µg of Anti-Mouse CD28 Functional Grade Purified (filled histogram) followed by Anti-Golden Syrian Hamster IgG FITC (Product # 11-4211-85). Cells in the lymphocyte gate were used for analysis.

Western Blot (1)

Science advances

FOXO1 deficiency impairs proteostasis in aged T cells.

"16-0281 was used in Cell Culture to show that FOXO1 promotes lysosome function through the induction of the key transcription factor for lysosomal proteins, TFEB."

Authors: Jin J,Li X,Hu B,Kim C,Cao W,Zhang H,Weyand CM,Goronzy JJ

Species
Human

Dilution
Not Cited

Year
2020

Flow Cytometry (55)

Frontiers in immunology

PRMT5 Promotes Cyclin E1 and Cell Cycle Progression in CD4 Th1 Cells and Correlates With EAE Severity.

"16-0281-82 was used in Flow Cytometry to demonstrate the role of protein arginine N-methyltransferase 5 in T cell activation during multiple sclerosis."

Authors: Amici SA,Osman W,Guerau-de-Arellano M

Species
Mouse

Dilution
Not Cited

Year
2021

Nature communications

Loss of fragile site-associated tumor suppressor promotes antitumor immunity via macrophage polarization.

"16-0281-82 was used in Flow Cytometry to report a function of FATS in tumor development via regulation of tumor immunity."

Authors: Zhang L,Zhang K,Zhang J,Zhu J,Xi Q,Wang H,Zhang Z,Cheng Y,Yang G,Liu H,Guo X,Zhou D,Xue Z,Li Y, Zhang Q,Da Y,Liu L,Yin Z,Yao Z,Zhang R

Species
Mouse

Dilution
Not Cited

Year
2021

[View more Flow references on thermofisher.com](#)

ELISA (1)

Journal of virology

Measles virus infection of SLAM (CD150) knockin mice reproduces tropism and immunosuppression in human infection.

"16-0281 was used in Flow cytometry/Cell sorting to investigate the effects on measles infection after replacement of the V domain of mouse SLAM with human SLAM."

Authors: Ohno S,Ono N,Seki F,Takeda M,Kura S,Tsuzuki T,Yanagi Y

Species
Mouse

Dilution
Not Cited

Year
2007

More applications with references on thermofisher.com

FN (76) **TCA (5)** **IV (9)** **Misc (1)**

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