

CD28 Monoclonal Antibody (37.51), Biotin, 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, Biotin, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	37.51
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466411

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	11 Publications
T-Cell Activation (TCA)	-	8 Publications
Affinity Purification (AP)	-	1 Publication
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.

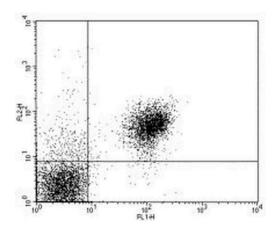
Applications Reported: The 37.51 antibody has been reported for use in flow cytometric analysis.

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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Note: It has been observed that increased incubations times (30-45 minutes) with the CD28 antibody can enhance the staining obtained.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD28 Antibody (13-0281-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.25 μ g of Golden Syrian Hamster IgG Isotype Control Biotin (Product # 12-4914-81) (left) or 0.25 μ g of Anti-Mouse CD28 Biotin (right) and then detected with Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 23 References

Western Blot (1)

Nature communications

Year 2018

T cell microvilli constitute immunological synaptosomes that carry messages to antigen-presenting cells.

"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Western Blot" Authors: Kim HR, Mun Y, Lee KS, Park YJ, Park JS, Park JH, Jeon BN, Kim CH, Jun Y, Hyun YM, Kim M, Lee SM, Park CS, Im SH,Jun CD

Immunohistochemistry (1)

BMC cancer

Year 2015

Overexpression of IL-15 promotes tumor destruction via NK1.1+ cells in a spontaneous breast cancer model.

"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Immunohistochemistry" Authors: Gillgrass AE, Chew MV, Krneta T, Ashkar AA

Flow Cytometry (11)

Neural regeneration research

VX-765 reduces neuroinflammation after spinal cord injury in mice.

Year 2021

"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Flow Cytometry" Authors: Chen J,Chen YQ,Shi YJ,Ding SQ,Shen L,Wang R,Wang QY,Zha C,Ding H,Hu JG,Lü HZ

Frontiers in cell and developmental biology

Senescent T Cell Induces Brown Adipose Tissue "Whitening" Via Secreting IFN-.

Year 2021

"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Flow Cytometry" Authors: Pan XX, Yao KL, Yang YF, Ge Q, Zhang R, Gao PJ, Ruan CC, Wu F

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

TCA (8) AP (1) Misc (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR INPERIOR SHIPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFERNISHED.

BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY ERPIOD IS LIMITED TO REPAIR, REPLACE OR REFUND FOR THE NON-CONFORMING PRODUCTS, SOLE OPTION, ITERES IS NO BUSINESS. THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FOR CE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the docume companying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized comi diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals