

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
Type	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.

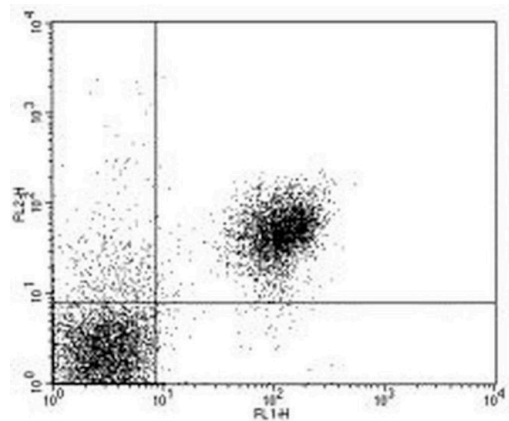
Applications Reported: The 37.51 antibody has been reported for use in flow cytometric analysis.

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 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.

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 µg of Golden Syrian Hamster IgG Isotype Control Biotin (Product # 12-4914-81) (left) or 0.25 µg of Anti-Mouse CD28 Biotin (right) and then detected with Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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Western Blot (1)

<p>Nature communications</p> <p>T cell microvilli constitute immunological synaptosomes that carry messages to antigen-presenting cells.</p> <p>"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Western Blot"</p> <p>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</p>	<p>Year</p> <p>2018</p>
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Immunohistochemistry (1)

<p>BMC cancer</p> <p>Overexpression of IL-15 promotes tumor destruction via NK1.1+ cells in a spontaneous breast cancer model.</p> <p>"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Immunohistochemistry"</p> <p>Authors: Gillgrass AE,Chew MV,Krneta T,Ashkar AA</p>	<p>Year</p> <p>2015</p>
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Flow Cytometry (11)

<p>Neural regeneration research</p> <p>VX-765 reduces neuroinflammation after spinal cord injury in mice.</p> <p>"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Flow Cytometry"</p> <p>Authors: Chen J,Chen YQ,Shi YJ,Ding SQ,Shen L,Wang R,Wang QY,Zha C,Ding H,Hu JG,Lü HZ</p>	<p>Year</p> <p>2021</p>
<p>Frontiers in cell and developmental biology</p> <p>Senescent T Cell Induces Brown Adipose Tissue "Whitening" Via Secreting IFN-.</p> <p>"Published figure using CD28 monoclonal antibody (Product # 13-0281-82) in Flow Cytometry"</p> <p>Authors: Pan XX,Yao KL,Yang YF,Ge Q,Zhang R,Gao PJ,Ruan CC,Wu F</p>	<p>Year</p> <p>2021</p>

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

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