

# CD28 Monoclonal Antibody (37.51), PerCP-Cyanine5.5, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Syrian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	37.51
Conjugate	PerCP-Cyanine5.5
Excitation/Emission Max	489/679 nm
Form	Liquid
Concentration	0.2 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_925744

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	11 Publications

## Product Specific Information

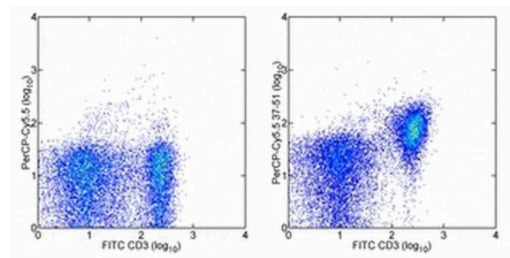
**Description:** The 37.51 monoclonal antibody reacts with the mouse CD28 molecule, a 45 kDa homodimer expressed by thymocytes, mature T cells and NK cells. CD28 is a ligand for CD80 (B7-1) and CD86 (B7-2) and is a potent costimulator of T cells. Signaling through CD28 augments IL-2 and IL-2 receptor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

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

**Applications Tested:** This 37.51 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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.

**Excitation:** 488 nm; **Emission:** 695 nm; **Laser:** Blue Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



**CD28 Antibody (45-0281-80) in Flow**  
Staining of BALB/c splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and staining buffer (autofluorescence) (left) or 0.5 µg of Anti-Mouse CD28 PerCP-Cyanine5-5 (right). Total viable cells were used for analysis.

View more figures on [thermofisher.com](https://thermofisher.com)

11 References

Flow Cytometry (11)

<p>Neural regeneration research</p> <p><b>VX-765 reduces neuroinflammation after spinal cord injury in mice.</b></p> <p>"Published figure using CD28 monoclonal antibody (Product # 45-0281-80) 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 2021</p> <p>Species Mouse</p>
<p>Frontiers in cell and developmental biology</p> <p><b>Senescent T Cell Induces Brown Adipose Tissue "Whitening" Via Secreting IFN-.</b></p> <p>"Published figure using CD28 monoclonal antibody (Product # 45-0281-80) 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 2021</p>

View more Flow references on [thermofisher.com](https://thermofisher.com)

More applications with references on [thermofisher.com](https://thermofisher.com)

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 IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE 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 documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.