

CD29 (Integrin beta 1) Monoclonal Antibody (TS2/16), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TS2/16
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572555

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	5 µL (0.125 µg)/test	8 Publications
Immunocytochemistry (ICC)	-	1:200	1 Publication
Immunofluorescence (IF)	-	1:200	1 Publication

Product Specific Information

Description: The TS2/16 monoclonal antibody reacts with human CD29, also known as integrin beta 1, an approximately 130 kDa single-pass transmembrane glycoprotein. CD29 complexes with one of nine integrin alpha subunits to form the very late antigen (VLA) subfamily of adhesion molecules. Integrin heterodimers containing CD29 are involved in cell-cell and cell-matrix adhesion. CD29 is expressed broadly on lymphocytes and monocytes, with lower levels of expression on granulocytes. The TS2/16 antibody has been found to possess activating activity for beta 1 integrins.

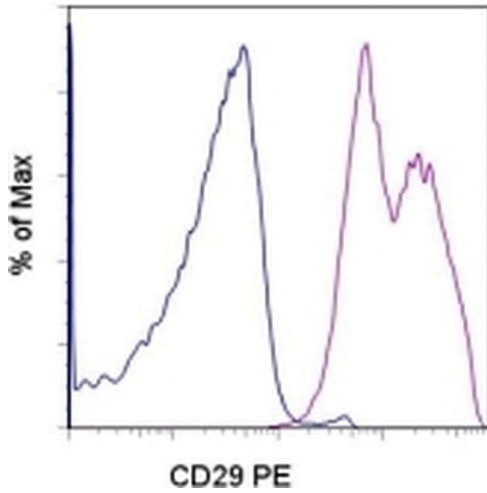
Applications Reported: This TS2/16 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This TS2/16 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD29 (Integrin beta 1) Monoclonal Antibody (TS2/16), PE, eBioscience™



CD29 (Integrin beta 1) Antibody (12-0299-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD29 PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

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

10 References

Flow Cytometry (8)

International journal of molecular sciences

Nrf2 Inhibits Periodontal Ligament Stem Cell Apoptosis under Excessive Oxidative Stress.

"12-0299 was used in Flow cytometry/Cell sorting to analyze novel mechanisms underlying Nrf2-mediated anti-apoptosis in periodontal ligament stem cells in the periodontitis oxidative microenvironment."

Authors: Liu Y, Yang H, Wen Y, Li B, Zhao Y, Xing J, Zhang M, Chen Y

Species
Human

Dilution
Not Cited

Year
2017

International journal of clinical and experimental pathology

PDGFR- (+) perivascular cells from infantile hemangioma display the features of mesenchymal stem cells and show stronger adipogenic potential in vitro and in vivo.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 12-0299-42) in Flow Cytometry"

Authors: Yuan SM, Guo Y, Zhou XJ, Shen WM, Chen HN

Species
Not Applicable

Dilution
Not Cited

Year
2015

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

Immunocytochemistry (1)

Nature communications

The scaffold protein p140Cap limits ERBB2-mediated breast cancer progression interfering with Rac GTPase-controlled circuitries.

"12-0299 was used in Western Blotting to demonstrate a role for p140Cap in curbing the aggressiveness of ERBB2-amplified breast cancers."

Authors: Grasso S, Chapelle J, Salemm V, Aramu S, Russo I, Vitale N, Verdun di Cantogno L, Dallaglio K, Castellano I, Amici A, Centonze G, Sharma N, Lunardi S, Cabodi S, Cavallo F, Lamolinara A, Stramucci L, Moiso E, Provero P, Albin A, Sapino A, Staaf J, Di Fiore PP, Bertalot G, Pece S, Tosoni D, Confalonieri S, Iezzi M, Di Stefano P, Turco E, Defilippi P

Species
Human

Dilution
1:200

Year
2017

Immunofluorescence (1)

Nature communications

The scaffold protein p140Cap limits ERBB2-mediated breast cancer progression interfering with Rac GTPase-controlled circuitries.

"12-0299 was used in Western Blotting to demonstrate a role for p140Cap in curbing the aggressiveness of ERBB2-amplified breast cancers."

Authors: Grasso S, Chapelle J, Salemm V, Aramu S, Russo I, Vitale N, Verdun di Cantogno L, Dallaglio K, Castellano I, Amici A, Centonze G, Sharma N, Lunardi S, Cabodi S, Cavallo F, Lamolinara A, Stramucci L, Moiso E, Provero P, Albin A, Sapino A, Staaf J, Di Fiore PP, Bertalot G, Pece S, Tosoni D, Confalonieri S, Iezzi M, Di Stefano P, Turco E, Defilippi P

Species
Human

Dilution
1:200

Year
2017

More applications with references on 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.