

# Product Datasheet

## Integrin beta 1/CD29 Antibody - BSA Free NBP2-16974

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 7

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Updated 9/9/2025 v.20.1

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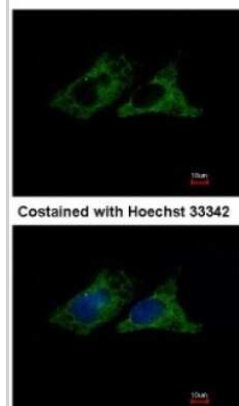


**NBP2-16974****Integrin beta 1/CD29 Antibody - BSA Free**

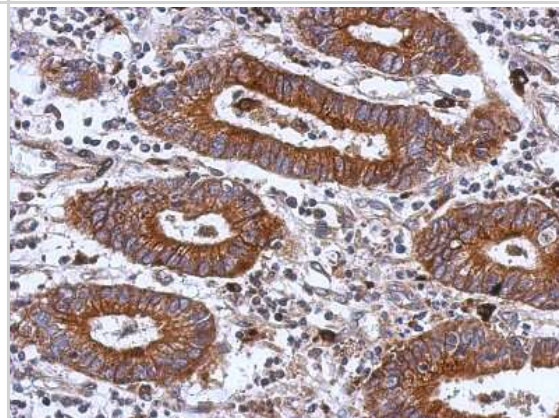
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 20% Glycerol
<b>Target Molecular Weight</b>	88 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Integrin beta 1/CD29 Antibody - BSA Free (NBP2-16974) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, Simple Western and ChIP. Anti-Integrin beta 1/CD29 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	3688
<b>Gene Symbol</b>	ITGB1
<b>Species</b>	Human, Mouse, Canine
<b>Reactivity Notes</b>	Xenopus laevis (91%), Cat (98%).
<b>Marker</b>	Stem Cell Marker
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human Integrin beta 1/CD29. The exact sequence is proprietary.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:10000, Simple Western 1:100, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Chromatin Immunoprecipitation (ChIP) Reported in scientific literature (PMID:33867854)
<b>Application Notes</b>	See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Heart, separated by Size, antibody dilution of 1:100

## Images

Immunocytochemistry/Immunofluorescence: Integrin beta 1/CD29 Antibody [NBP2-16974] - Analysis of methanol-fixed HeLa, using antibody at 1:500 dilution.



Immunohistochemistry-Paraffin: Integrin beta 1/CD29 Antibody [NBP2-16974] - Human colon carcinoma, using Integrin beta 1 / CD29 antibody at 1:500 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min of paraffin-embedded Colon ca, using antibody at 1:500 dilution.



Integrin beta 1 / CD29 antibody detects Integrin beta 1 / CD29 protein by western blot analysis.

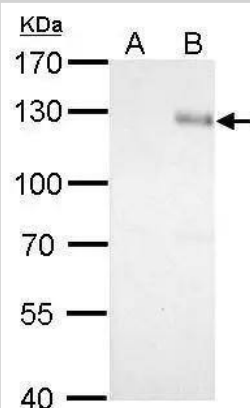
A. 30 ug 293T whole cell lysate/extract

B. 30 ug whole cell lysate/extract of human Integrin beta 1 / CD29-transfected 293T cells

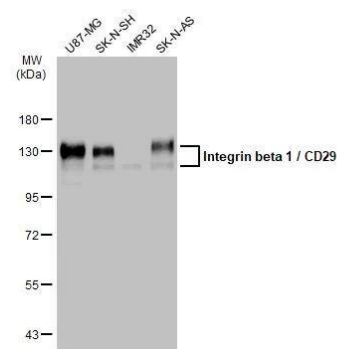
7.5% SDS-PAGE

Integrin beta 1 / CD29 antibody (NBP2-16974) dilution: 1:5000

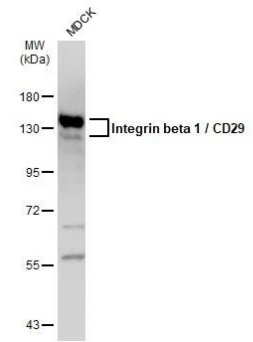
The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



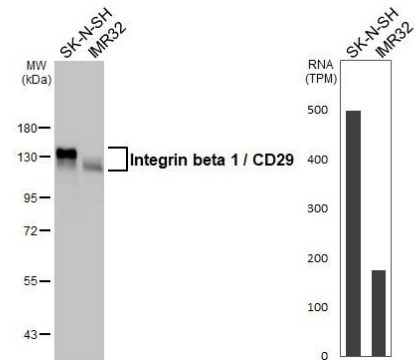
Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Integrin beta 1 / CD29 antibody (NBP2-16974) diluted at 1:4000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



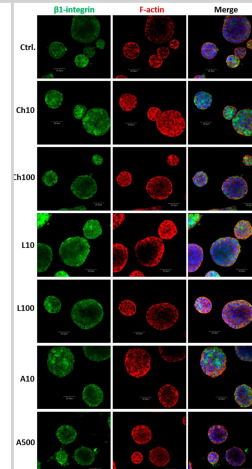
Western Blot: Integrin beta 1/CD29 Antibody [NBP2-16974] - Whole cell extract (30 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with Integrin beta 1/CD29 antibody (NBP2-16974) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



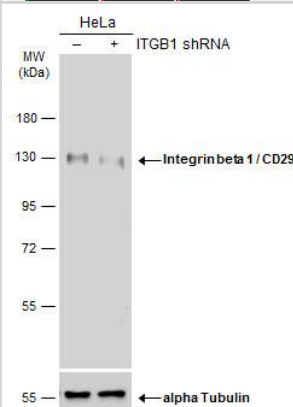
Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Integrin beta 1 / CD29 antibody (NBP2-16974) diluted at 1:4000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



Panels of confocal micrographs presenting the immunofluorescence staining of BME-UV1 cells cultured on Matrigel for 11 days in control growth medium (Ctrl.) or medium supplemented with chemerin (Ch10 = 10 ng/mL, Ch100 = 100 ng/mL), leptin (L10 = 10 ng/mL, L100 = 100 ng/mL), or adiponectin (A10 = 10 ng/mL, A500 = 500 ng/mL). Cells were stained with primary antibodies against  $\beta$ 1-integrin and secondary antibodies conjugated with Alexa Fluor 488 dye (green fluorescence); Alexa Fluor 594 phalloidin, detecting F-actin (red fluorescence), and nuclei counterstained with Hoechst 33342 (blue fluorescence). Images were taken at 600 $\times$  magnification and are representative for three independent experiments. Scale bar: 20  $\mu$ m. Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/1422-0067/25/8/4147>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: Integrin beta 1/CD29 Antibody [NBP2-16974] - Non-transfected (-) and transfected (+) HeLa whole cell extracts (15 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Integrin beta 1 / CD29 antibody diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



## Publications

Krajnak S, Jakel J, Anic K Et al. Role of integrins in the metastatic spread of high-grade serous ovarian cancer Archives of gynecology and obstetrics 2021-10-24 [PMID: 34689222] (Simple Western)

Bousalis D, Lacko CS, Hlavac N et al. Extracellular Matrix Disparities in an Nkx2-5 Mutant Mouse Model of Congenital Heart Disease Frontiers in Cardiovascular Medicine 2020-05-29 [PMID: 32548129] (Simple Western)

Żaneta Dzięgelewska-Sokołowska, Alicja Majewska, Iwona Szopa, Małgorzata Gajewska, Andrea Frontini Chemerin Stimulates the Secretory Activity of BME-UV1 Bovine Mammary Epithelial Cells International Journal of Molecular Sciences 2024-04-09 [PMID: 38673732]

Wu L, Xu Y, Xi K et al. Regulation of macrophage subtype via injectable micro/nano-structured porous microsphere for reprogramming osteoimmune microenvironment Chemical Engineering Journal 2022-07-01 (ICC/IF, Rat)

Hlavac N, Seroski DT, Agrawal NK et al. Chondroitinase ABC/galectin-3 fusion proteins with hyaluronan-based hydrogels stabilize enzyme and provide targeted enzyme activity for neural applications Journal of neural engineering 2021-06-22 [PMID: 34082409]

Zhang W, Wang H, Yuan Z et al. Moderate mechanical stimulation rescues degenerative annulus fibrosus by suppressing caveolin-1 mediated pro-inflammatory signaling pathway International journal of biological sciences 2021-04-03 [PMID: 33867854] (IF/IHC, Chemotaxis, Rat)

Ngo TB, Spearman BS, Hlavac N, Schmidt CE Three-Dimensional Bioprinted Hyaluronic Acid Hydrogel Test Beds for Assessing Neural Cell Responses to Competitive Growth Stimuli ACS biomaterials science & engineering 2020-12-14 [PMID: 33320621]





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General: novus@novusbio.com

### **Products Related to NBP2-16974**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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