

Product Datasheet

Integrin alpha 5 beta 1 Antibody (M200 (Volociximab)) - Chimeric - Azide and BSA Free NBP2-52680-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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NBP2-52680-0.2mg

Integrin alpha 5 beta 1 Antibody (M200 (Volociximab)) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	M200 (Volociximab)
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS

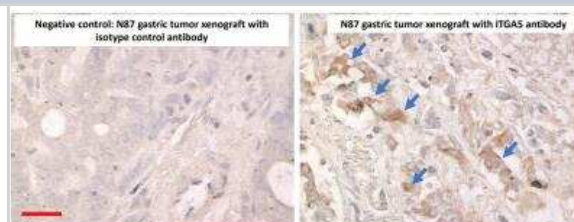
Product Description	
Description	Novus Biologicals Rabbit Integrin alpha 5 beta 1 Antibody (M200 (Volociximab)) - Chimeric - Azide and BSA Free (NBP2-52680) is a recombinant monoclonal antibody validated for use in IHC, ELISA, Flow and ICC/IF. Anti-Integrin alpha 5 beta 1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3678
Gene Symbol	ITGA5
Species	Human
Specificity/Sensitivity	The antibody binds to human (alpha)5(beta)1 integrin with a Kd of 0.367 nM (determined by Biacore), an EC50 of 0.2 nM and an IC50 of 2.3 nM.
Immunogen	Heterodimeric alpha 5 Beta 1 Fc fusion protein

Product Application Details	
Applications	Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Block/Neutralize, CyTOF-ready
Recommended Dilutions	Flow Cytometry 1:10 - 1:1000, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, CyTOF-ready, Block/Neutralize
Application Notes	This antibody is Cytof ready. NOT FOR THERAPEUTIC USE - This is a research-grade biosimilar. This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG4 format, for improved compatibility with existing reagents, assays and techniques. Use in ICC/IF was reported in scientific literature (PMID: 30611716). The antibody binds specifically to Integrin alpha 5 beta 1, which is part of the superfamily of glycoprotein transmembrane receptors for ligands such as fibronectin, vitronectin, laminins and collagens. The Integrin alpha 5 beta 1 receptor plays a key role in cellular processes such as inflammation, cell proliferation, angiogenesis and tumour metastasis. Comprising the variable domain of the original mouse antibody, a chimeric mouse:human IgG4 version of this antibody has been tested in vivo: In cynomolgus monkeys with laser-induced choroidal neovascularization (CNV), in rabbit models and in human volunteers. The antibody reached Phase II clinical trials with PDL Biopharma and Biogen-Idec. Use in IHC reported in scientific publication PMID: 32449990. Integrin alpha 5 beta 1 Antibody validated for Immunohistochemistry-Paraffin from a verified customer review.

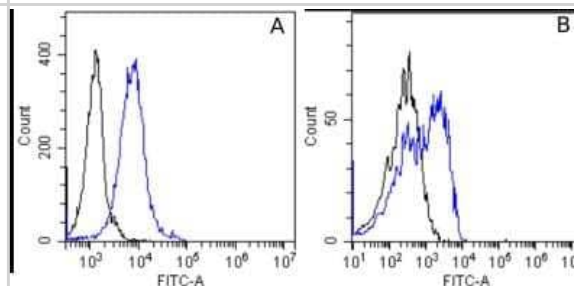


Images

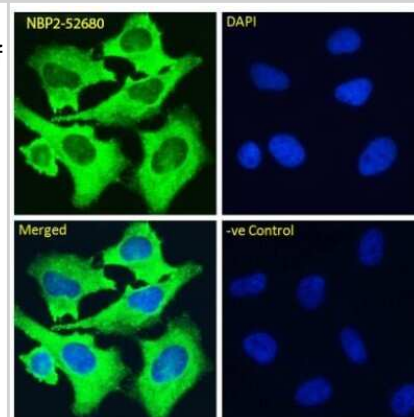
Immunohistochemistry-Paraffin: Integrin alpha 5 beta 1 Antibody (M200 (Volociximab)) - Chimeric [NBP2-52680] - N87 human gastric tumor xenograft immunostained with isotope control antibody (left panel) or 1:200 dilution of Integrin alpha 5 beta 1 antibody (right panel). Arrows indicate DAB immunoreactivity. Red scale bar = 10 microns. Image from verified customer review.



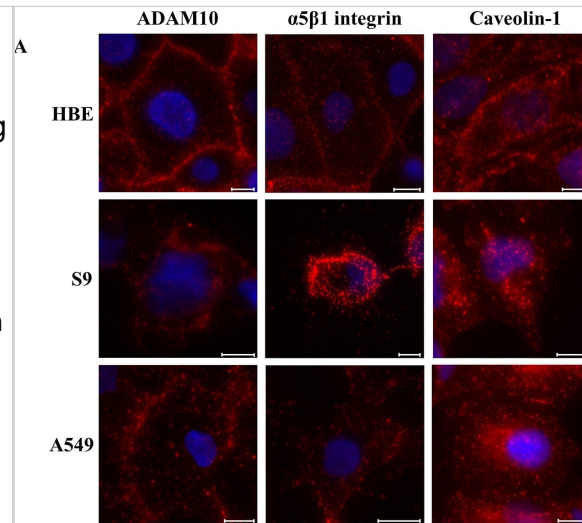
Flow Cytometry: Integrin alpha 5 beta 1 Antibody (M200 (Volociximab)) - Chimeric [NBP2-52680] - Flow-cytometry using the anti-alpha 5 beta 1 Integrin M200 (Volociximab). PBMC's (A) and U93 cells (B) were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of M200 (Volociximab) (NBP2-52680, blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.



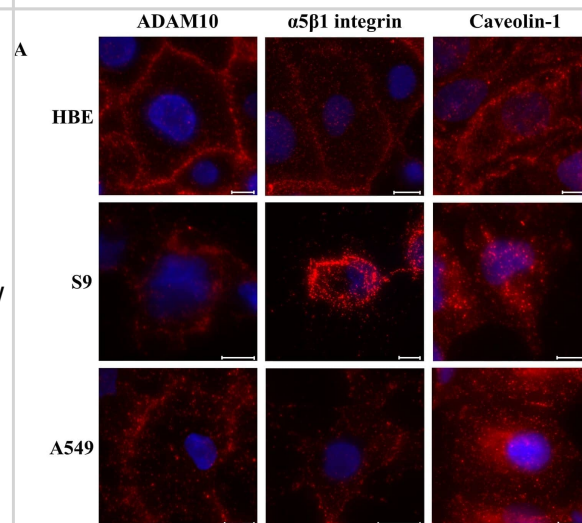
Immunofluorescence: Integrin alpha 5 beta 1 Antibody (M200 (Volociximab)) - Chimeric [NBP2-52680] - Immunofluorescence staining of fixed HeLa cells with anti-alpha 5 beta 1 Integrin antibody M200 (Volociximab). Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton stained with the chimeric rabbit IgG version of M200 (NBP2-52680) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing cytoplasmic and membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP2-52680, DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.



Flow Cytometry: Integrin alpha 5 beta 1 Antibody (M200 (Volociximab)) - Chimeric - Azide and BSA Free [NBP2-52680] - Abundance of two potential Hla receptors & of caveolin-1 as a potential pore-stabilizing factor. A: Representative examples of immune fluorescence assays using epifluorescence microscopy (nuclei counterstained using DAPI) that were performed on 16HBE14o-, S9 or A549 cells grown on coverslips using antibodies against ADAM10, the $\alpha 5\beta 1$ integrin or against caveolin-1. Staining appearing in red represents specific labelling of the respective proteins. Scale bars: 10 μm . B: Semi-quantitative determination of primary & secondary antibody-mediated fluorescence in suspended individual cells by flow cytometry. During flow cytometry, the fluorescence of the antibody-tagged proteins per cell was measured & the respective medians of the detected peaks were used for calculating the means \pm S.D. for the biological replicates ($n = 4$, each). Individual means were tested for significant differences using Student's t-test or Welch's t-test: * = $p \leq 0.05$, ** = $p \leq 0.01$ or *** = $p \leq 0.001$. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32470006>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Abundance of two potential Hla receptors and of caveolin-1 as a potential pore-stabilizing factor. A: Representative examples of immune fluorescence assays using epifluorescence microscopy (nuclei counterstained using DAPI) that were performed on 16HBE14o-, S9 or A549 cells grown on coverslips using antibodies against ADAM10, the $\alpha 5\beta 1$ integrin or against caveolin-1. Staining appearing in red represents specific labelling of the respective proteins. Scale bars: 10 μm . B: Semi-quantitative determination of primary and secondary antibody-mediated fluorescence in suspended individual cells by flow cytometry. During flow cytometry, the fluorescence of the antibody-tagged proteins per cell was measured and the respective medians of the detected peaks were used for calculating the means \pm S.D. for the biological replicates ($n = 4$, each). Individual means were tested for significant differences using Student's t-test or Welch's t-test: * = $p \leq 0.05$, ** = $p \leq 0.01$ or *** = $p \leq 0.001$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32470006>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Phillips AT, Boumil EF, Castro N Et al. USP10 Promotes Fibronectin Recycling, Secretion, and Organization Investigative ophthalmology & visual science 2021-10-04 [PMID: 34665194] (Human)

Ludwig BS, Tomassi S, Di Maro S et al. Pharmacological Inhibition of Brain EGFR Activation By a BBB-penetrating Inhibitor, AZD3759, Attenuates alpha-synuclein Pathology in a Mouse Model of alpha-Synuclein PropagationThe organometallic ferrocene exhibits amplified anti-tumor activity by targete Biomaterials 2021-03-12 [PMID: 33756215] (ICC/IF, Human)

Moller N, Ziesemer S et al. S. aureus alpha-toxin monomer binding and heptamer formation in host cell membranes - Do they determine sensitivity of airway epithelial cells toward the toxin? PLoS One 2020-05-30 [PMID: 32470006] (FLOW, Human)

Smith PC, Metz C, de la PeNa A et al. Galectin-8 mediates fibrogenesis induced by cyclosporine in human gingival fibroblasts J. Periodont. Res. 2020-05-25 [PMID: 32449990] (IHC, Human)

Li L, Hu X, Eid JE et al. Mutant IDH1 Depletion Downregulates Integrins and Impairs Chondrosarcoma Growth Cancers (Basel) 2020-01-06 [PMID: 31935911] (Human)

Laurenzana A, Margheri F, Biagioni A, et al EGFR/uPAR interaction as druggable target to overcome vemurafenib acquired resistance in melanoma cells EBioMedicine. 2019-01-02 [PMID: 30611716] (ICC/IF, Human)



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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
210-TA-005	TNF-alpha [Unconjugated]
7728-A5-050	Integrin alpha 5 beta 1

Limitations

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