

# Product Datasheet

## Integrin beta 4/CD104 Antibody (450-9D) - BSA Free NB100-65599

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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**NB100-65599**

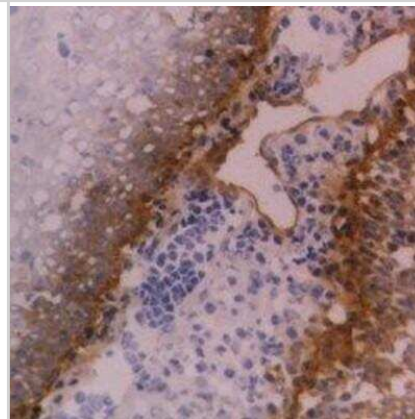
Integrin beta 4/CD104 Antibody (450-9D) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	450-9D
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse Integrin beta 4/CD104 Antibody (450-9D) - BSA Free (NB100-65599) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Integrin beta 4/CD104 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3691
Gene Symbol	ITGB4
Species	Human
Reactivity Notes	Predicted cross-reactivities: Ferret, Mink, Mustelid
Specificity/Sensitivity	NB100-65599 recognizes the human beta4 integrin (also known as CD104), a 205kD glycoprotein which associates with the alpha6 integrin to form the alpha6/beta4 complex. CD104 is expressed on epithelial cells, Schwann cells and various tumour cell lines. NB100-65599 recognizes an extracellular epitope on the CD104 molecule.
Immunogen	Purified alpha6 beta4 integrin from A431 cells
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:25-1:100, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:500-1:1000
Application Notes	For Flow Cytometry: Use 10 ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100 ul. The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. The use of acetone fixation for frozen sections is recommended.



## Images

Immunohistochemistry-Frozen: Integrin beta 4/CD104 Antibody (450-9D) [NB100-65599] - Staining of human tonsil cryostat section with Mouse anti human CD104



## Publications

Michail Raptopoulos, Nicholas G Fischer, Conrado Aparicio Implant surface physicochemistry affects keratinocyte hemidesmosome formation. Journal of biomedical materials research. Part A 2023-05-03 [PMID: 36621832]

Sasamoto Y, Lee CAA, Wilson BJ et al. Limbal BCAM expression identifies a proliferative progenitor population capable of holoclone formation and corneal differentiation Cell reports 2022-08-09 [PMID: 35947947] (IF/IHC, Human)

Details:  
Dilutions: 1:200

Fischer NG, Kobe AC, Dai J et al. Tapping basement membrane motifs: Oral junctional epithelium for surface-mediated soft tissue attachment to prevent failure of percutaneous devices Acta biomaterialia 2021-12-29 [PMID: 34971784] (ICC/IF)

Fischer G, He J, Aparicio C Surface Immobilization Chemistry of a LamininDerived Peptide Affects Keratinocyte Activity Coatings (Basel) 2020-06-11 [PMID: 32855816] (ICC/IF, Human)

Tra WM, van Neck JW, Hovius SE et al. Characterization of a three-dimensional mucosal equivalent: similarities and differences with native oral mucosa. Cells Tissues Organs 2012-01-01 [PMID: 21494020]



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### **Products Related to NB100-65599**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB100-65599AF647	Integrin beta 4/CD104 Antibody (450-9D) [Alexa Fluor® 647]

### **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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