

# Product Datasheet

## Integrin alpha 6/CD49f Antibody - BSA Free NBP1-85747

Unit Size: 0.1 ml

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

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### Publications: 9

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Updated 4/13/2025 v.20.1

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**NBP1-85747**

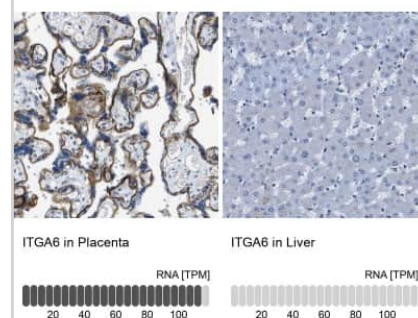
Integrin alpha 6/CD49f Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	127 kDa
Product Description	
Host	Rabbit
Gene ID	3655
Gene Symbol	ITGA6
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in the scientific literature (PMID: 23888051). Rat (86%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: APYDDLKGKVFYIHGSANGINTKPTQVLKGISPYFGYSIAGNMDLDRNSYPDVAV GSLSDSVTIFRSRPVINIQKTITVTPNRIDLRQKTACGAPSGICLQVKSCFEYTAN PAGYNPSISIVGTLEAEKERRKSGLSS
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:50, Immunohistochemistry 1:200 - 1:500, Immunoprecipitation Reported in scientific literature (PMID: 23888051), Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.  In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RT-4 and U-251MG sp, separated by Size, antibody dilution of 1:50, apparent MW was 168 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

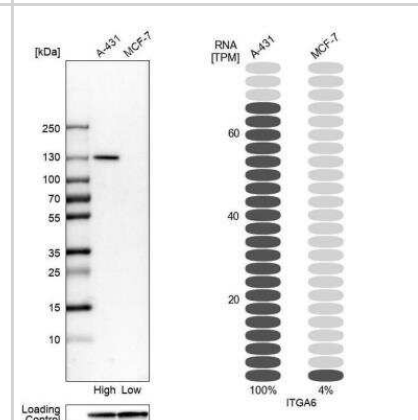


## Images

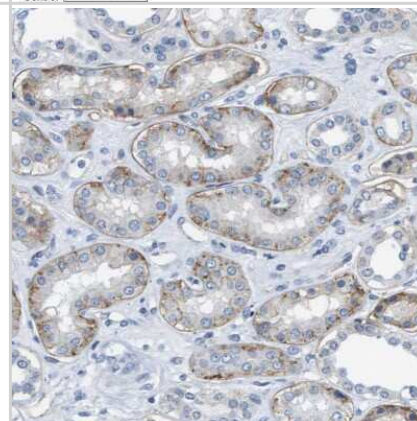
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining in human placenta and liver tissues . Corresponding ITGA6 RNA-seq data are presented for the same tissues.



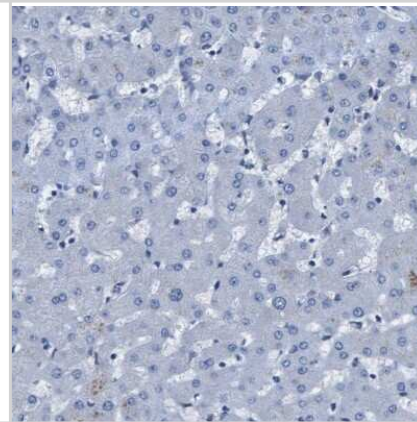
Western Blot: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Analysis in human cell lines A-431 and MCF-7. Corresponding RNA-seq data are presented for the same cell lines. Loading control: Anti-GAPDH.



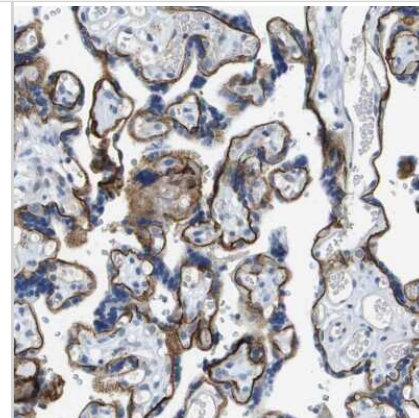
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human kidney shows moderate membranous positivity in cells in tubules.



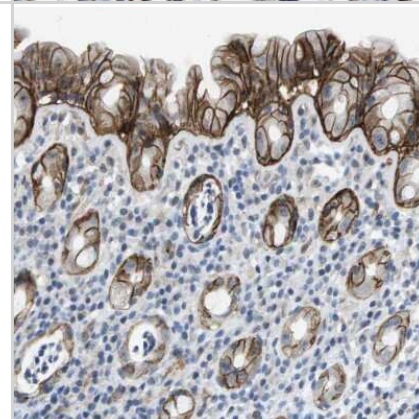
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human liver shows no positivity in hepatocytes as expected.



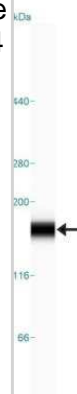
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human placenta shows strong membranous positivity in trophoblastic cells.



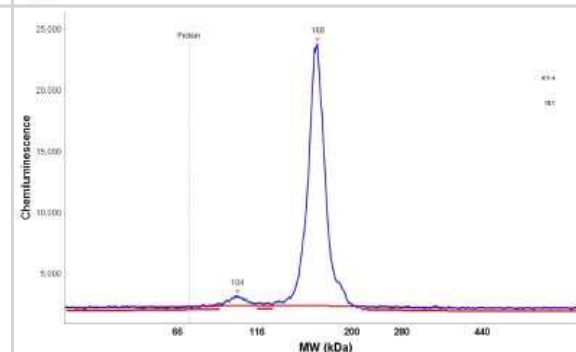
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human rectum shows strong membranous positivity in glandular cells.



Simple Western: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Simple Western lane view shows a specific band for ITGA6 in 0.2 mg/ml of RT-4 (left) and U-251MG sp (right) lysate. This experiment was performed under reducing conditions using the 66-440 kDa separation system.



Simple Western: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Electropherogram image(s) of corresponding Simple Western lane view. Integrin alpha 6/CD49f antibody was used at 1:50 dilution on RT-4 and U-251MG sp lysates(s).



## Publications

You Y, Muraoka S, Jedrychowski MP et al. Human neural cell type-specific extracellular vesicle proteome defines disease-related molecules associated with activated astrocytes in Alzheimer's disease brain *Journal of Extracellular Vesicles* 2022-01-13 [PMID: 35029059]

Crestani M, Kakogiannos N, Iannelli F et al. SP2G: an imaging and analysis pipeline revealing the inter and intra-patient migratory diversity of glioblastoma *bioRxiv* 2023-02-24 (WB)

Chalmers FE, Dusold JE, Shaik JA et al. Targeted deletion of TGF beta1 in basal keratinocytes causes profound defects in stratified squamous epithelia and aberrant melanocyte migration *Developmental biology* 2022-02-25 [PMID: 35227671]

Barbar L, Jain T, Zimmer M et al. CD49f Is a Novel Marker of Functional and Reactive Human iPSC-Derived Astrocytes *Neuron* 2020-05-22 [PMID: 32485136]

Hooks KB, Audoux J, Fazli H et al. New insights into diagnosis and therapeutic options for proliferative hepatoblastoma *Hepatology*. 2017-11-20 [PMID: 29152775] (IHC-P, Human)

Sukhdeo K, Paramban RI, Vidal JG et al. Multiplex Flow Cytometry Barcoding and Antibody Arrays Identify Surface Antigen Profiles of Primary and Metastatic Colon Cancer Cell Lines. *PLoS One* 2013-01-01 [PMID: 23308131]

Wang Y, Huang Z, Nayak PS et al. Strain-induced Differentiation of Fetal Type II Epithelial Cells Is Mediated via Integrin alpha6beta1-ADAM17/TACE Signaling Pathway. *J Biol Chem* 2013-07-25 [PMID: 23888051] (IP, WB, Mouse)

Tra WM, Tuk B, van Neck JW et al. Tissue-engineered mucosa is a suitable model to quantify the acute biological effects of ionizing radiation. *Int J Oral Maxillofac Surg* 2013-04-11 [PMID: 23583647] (IF/IHC, Human)

Kielosto M, Nummela P, Jarvinen K et al. Identification of integrins alpha6 and beta7 as c-Jun- and transformation-relevant genes in highly invasive fibrosarcoma cells. *Int J Cancer*. 2009-09-01 [PMID: 19405119]





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### **Products Related to NBP1-85747**

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NBP1-85747PEP	Integrin alpha 6/CD49f Recombinant Protein Antigen
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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