

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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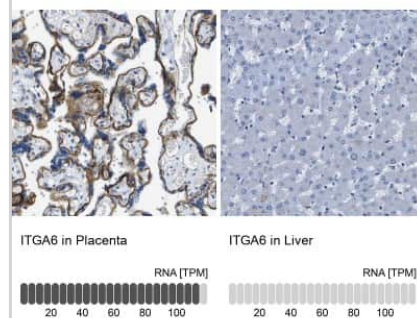
NBP1-85747

Integrin alpha 6/CD49f Antibody - BSA Free

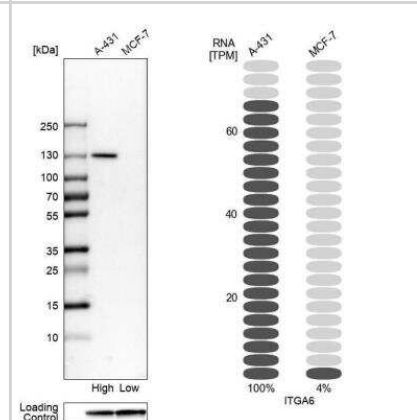
| Product Information | |
|--------------------------------|---|
| Unit Size | 0.1 ml |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw 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: APYDDLKGVFIYHGSANGINTKPTQVLKGISPYFGYSIAGNMDLDRNSYPDVAV 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 Simple Western Antibody Database 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

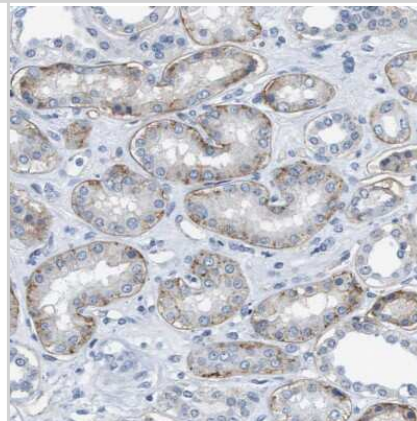
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining in human placenta and liver tissues . Corresponding ITGA6 RNA-seq data are presented for the same tissues.



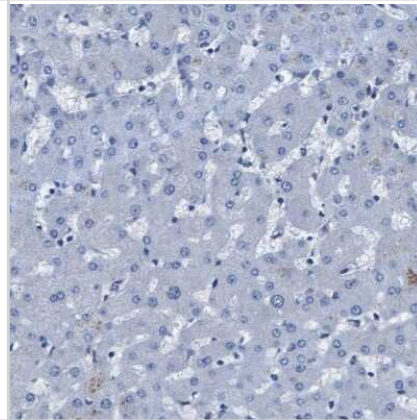
Western Blot: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Analysis in human cell lines A-431 and MCF-7. Corresponding RNA-seq data are presented for the same cell lines. Loading control: Anti-GAPDH.



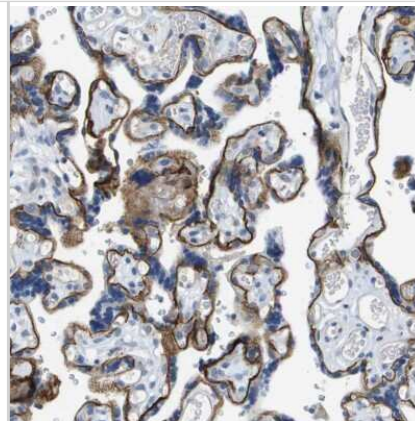
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human kidney shows moderate membranous positivity in cells in tubules.



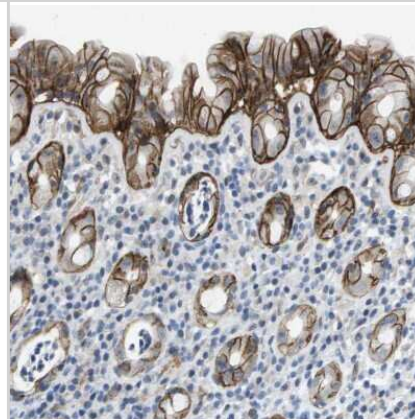
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human liver shows no positivity in hepatocytes as expected.



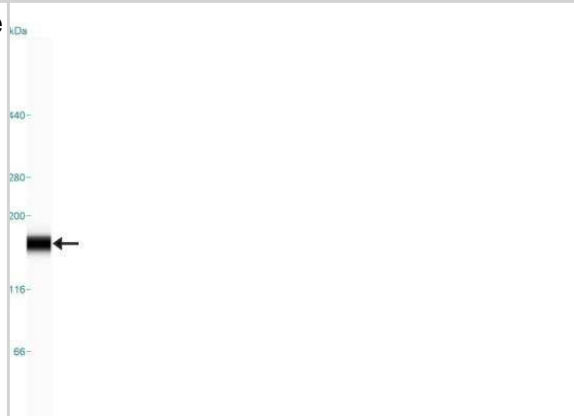
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human placenta shows strong membranous positivity in trophoblastic cells.



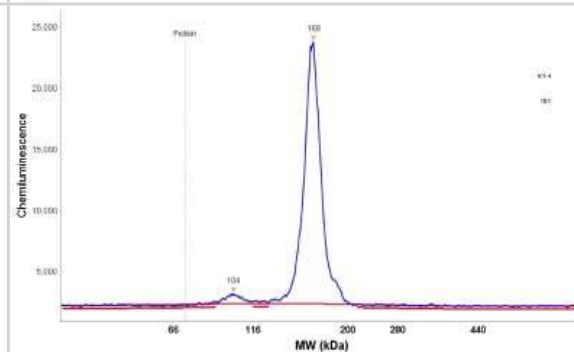
Immunohistochemistry-Paraffin: Integrin alpha 6/CD49f Antibody [NBP1-85747] - Staining of human rectum shows strong membranous positivity in glandular cells.



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

| | |
|---------------|---|
| 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 |

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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