

Product Datasheet

Caveolin-2 Antibody - BSA Free NBP1-31116

Unit Size: 0.1 ml

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

www.novusbio.com



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NBP1-31116

Caveolin-2 Antibody - BSA Free

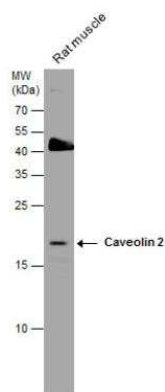
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	0.1M Tris, 0.1M Glycine, 10% Glycerol
Target Molecular Weight	18 kDa

Product Description	
Description	Novus Biologicals Rabbit Caveolin-2 Antibody - BSA Free (NBP1-31116) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Caveolin-2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	858
Gene Symbol	CAV2
Species	Human, Mouse, Rat
Reactivity Notes	Cat (100%).
Marker	Caveolae Marker
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Caveolin-2. The exact sequence is proprietary.

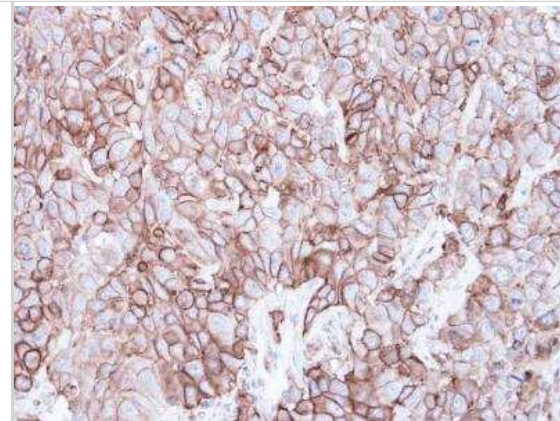
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000

Images

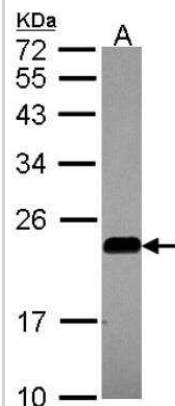
Western Blot: Caveolin-2 Antibody [NBP1-31116] - Rat tissue extracts (50 ug) was separated by 15% SDS-PAGE, and the membrane was blotted with Caveolin 2 antibody diluted at 1:1000.



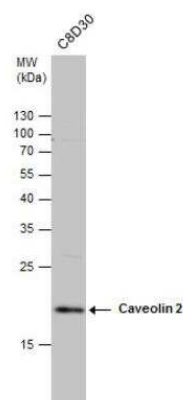
Immunohistochemistry-Paraffin: Caveolin-2 Antibody [NBP1-31116] - FaDu xenograft, using Caveolin 2 antibody at 1:500 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



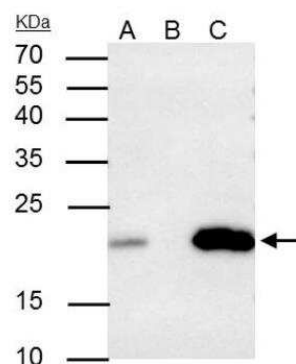
Western Blot: Caveolin-2 Antibody [NBP1-31116] - Sample (30 ug of whole cell lysate) A: A549 12% SDS PAGE; antibody diluted at 1:1000.



Western Blot: Caveolin-2 Antibody [NBP1-31116] - Whole cell extracts (30 ug) was separated by 15% SDS-PAGE, and the membrane was blotted with Caveolin 2 antibody diluted at 1:1000.

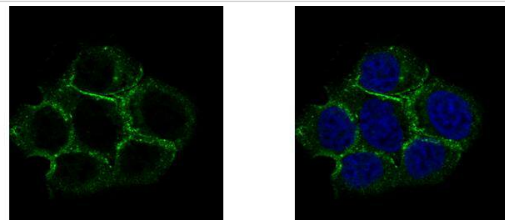


Immunoprecipitation: Caveolin-2 Antibody [NBP1-31116] - IP samples: A549 whole cell extract A. 30 ug A549 whole cell extract B. Control with 4 ug of preimmune Rabbit IgG C. Immunoprecipitation of caveolin 2 protein by 4 ug Caveolin 2 antibody 15 % SDS-PAGE The immunoprecipitated caveolin 2 protein was detected by Caveolin 2 antibody diluted at 1:500. [EasyBlot anti-rabbit IgG was used as a secondary reagent]

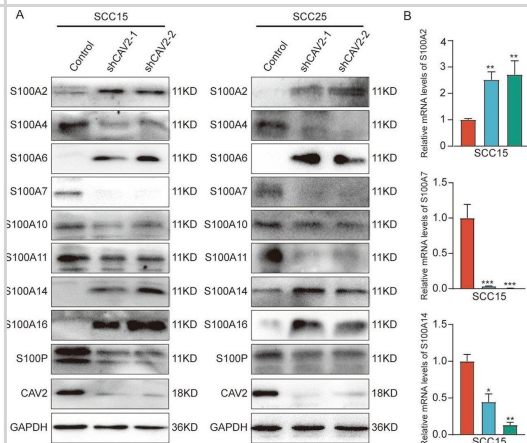


Caveolin-2 antibody detects Caveolin-2 protein at membrane by immunofluorescent analysis.

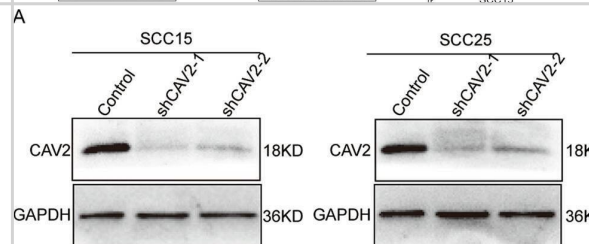
Sample: A431 cells were fixed in 4% paraformaldehyde at RT for 15 min.
Green: Caveolin-2 protein stained by Caveolin-2 antibody (NBP1-31116) diluted at 1:500.
Blue: Hoechst 33342 staining.



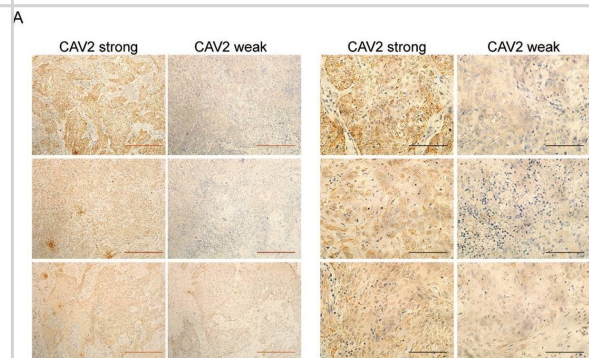
The S100 protein family affects HNSCC metastasis and is regulated by CAV2. A The expression of S100 family proteins in CAV2-control and CAV2-knockdown (shCAV2-1, shCAV2-2) SCC15 and SCC25 HNSCC cell lines was evaluated by immunoblotting. B The expression of S100 family proteins in CAV2-control and CAV2-knockdown (shCAV2-1, shCAV2-2) SCC15 cell lines was evaluated by RT-qPCR. C Alterations in the invasive ability of SCC15 and SCC25 cells following siRNA interference of S100 protein family members. The invasive ability of SCC15 and SCC25 cells was detected using Transwell assays. *, **, *** and **** indicate $p < 0.05$, $p < 0.01$, $p < 0.001$ and $p < 0.0001$, respectively. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36114176>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



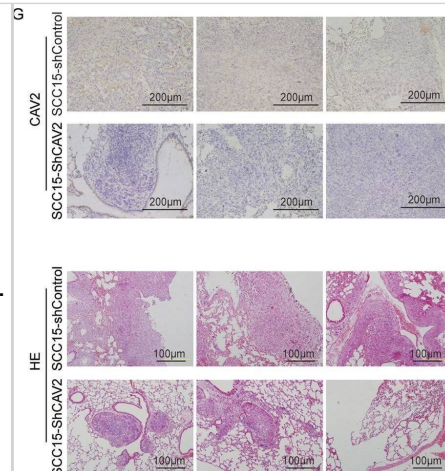
CAV2 promotes HNSCC metastasis both in vitro and in vivo. Silencing CAV2 in SCC15 and SCC25 cells by transfection with two individual CAV2 shRNAs significantly decreased CAV2 expression, as detected by western blotting (A) and QT-PCR (B). C, D The silencing of CAV2 significantly inhibited the migration and invasion of SCC15 and SCC25 cells, as evaluated using Transwell assays. (Scale bar, 200 μ m). E Images of the macroscopic lung tissues of tail vein-injected mice. F The lung metastasis nodules were counted, and the data from the shCAV2 and negative control groups are summarized. '****' indicates ' $p < 0.0001$ '. G CAV2 IHC staining and H&E staining to assess lung metastasis in tail vein-injected mice. (Scale bars, 200 μ m and 100 μ m). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36114176>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



High expression of CAV2 is associated with the poor prognosis of HNSCC patients. A IHC analysis of CAV2 levels in 211 human HNSCC samples (scale bar, 100 μ m or 400 μ m). B Kaplan-Meier survival curve showing the correlation of overall survival and disease-free survival with the CAV2 IHC score. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36114176>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



CAV2 promotes HNSCC metastasis both in vitro and in vivo. Silencing CAV2 in SCC15 and SCC25 cells by transfection with two individual CAV2 shRNAs significantly decreased CAV2 expression, as detected by western blotting (A) and QT-PCR (B). C, D The silencing of CAV2 significantly inhibited the migration and invasion of SCC15 and SCC25 cells, as evaluated using Transwell assays. (Scale bar, 200 μ m). E Images of the macroscopic lung tissues of tail vein-injected mice. F The lung metastasis nodules were counted, and the data from the shCAV2 and negative control groups are summarized. '****' indicates 'p < 0.0001'. G CAV2 IHC staining and H&E staining to assess lung metastasis in tail vein-injected mice. (Scale bars, 200 μ m and 100 μ m). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36114176>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wang Y, Wang Y, Liu R et al. CAV2 promotes the invasion and metastasis of head and neck squamous cell carcinomas by regulating S100 proteins Cell Death Discovery 2022-09-16 [PMID: 36114176] (In vivo assay)



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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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