

# Product Datasheet

## Caveolin-1 Antibody (7C8) - Azide and BSA Free NBP2-80617

Unit Size: 0.1 ml

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

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**NBP2-80617**

Caveolin-1 Antibody (7C8) - Azide and BSA Free

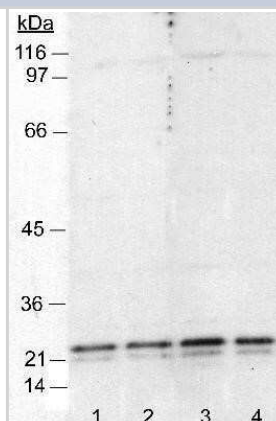
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7C8
Preservative	No Preservative
Isotype	IgG2b
Purity	Protein A purified
Buffer	Tris-Glycine, 0.15 M NaCl
Target Molecular Weight	23 kDa

Product Description	
Host	Mouse
Gene ID	857
Gene Symbol	CAV1
Species	Human, Mouse, Rat, Sheep
Immunogen	Intracellular membrane protein-containing vesicles (containing GLUT4) from rat adipocytes

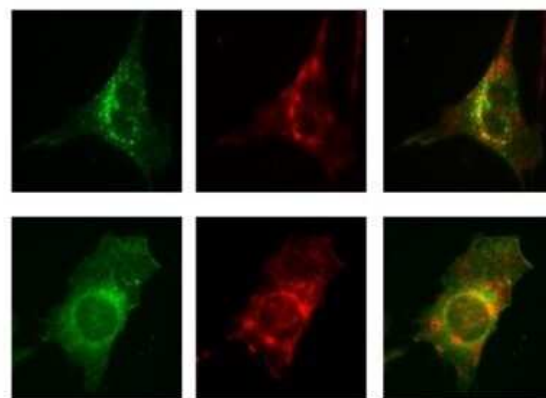
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000 - 1:4000, Flow Cytometry 1 ug per million cells, Immunohistochemistry 1:100 - 1:300, Immunocytochemistry/ Immunofluorescence 1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:100 - 1:300, Immunohistochemistry-Frozen reported in scientific literature (PMID 24758774)
Application Notes	In Western blot, a band is observed ~23 kDa, representing the Caveolin 1 protein. A band at ~21 kDa may also be observed depending on the lysates used.

**Images**

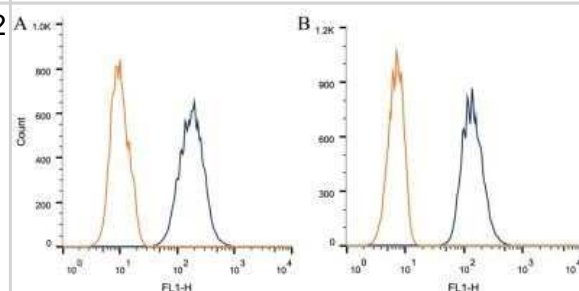
Western Blot: Caveolin-1 Antibody (7C8) - Azide and BSA Free [NBP2-80617] - Detection of caveolin in 3T3 cell lysates (50 ug). Lanes 1 and 2: 1:4000. Lanes 3 and 4: 1:1000. Detection by ECL: 5 minute exposure. Image from the standard format of this antibody.



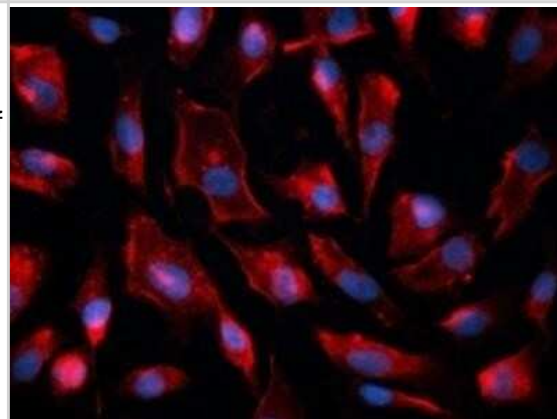
Immunocytochemistry/Immunofluorescence: Caveolin-1 Antibody (7C8) - Azide and BSA Free [NBP2-80617] - Subcellular localization of mPARG-1 and hPARG-1 (full-length and mutant proteins). NIH/3T3 cells transiently expressing hPARG-1-GFP or deltaCT-GFP were fixed, immunostained for caveolin-1 (1:100, Novus Biologicals), and examined by confocal fluorescence microscopy. For hPARG-1-GFP-caveolin-1 co-localization, cells that demonstrated cell membrane PARG-1 localization were chosen. All co-localizations were observed following merging images of GFP-tagged proteins with those of Golgi, endosomes, plasma membrane, alpha-tubulin or caveolin-1 labeling. Image collected and cropped by CiteAb from the following publication (<https://molecular-cancer.biomedcentral.com/articles/10.1186/1476-4598-12-84>), licensed under a CC-BY license. Image from the standard format of this antibody.



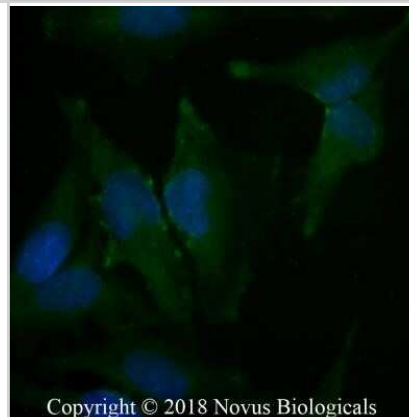
Flow Cytometry: Caveolin-1 Antibody (7C8) - Azide and BSA Free [NBP2-80617] - Intracellular flow cytometric staining of  $1 \times 10^6$  CHO (A) and HEK-293 (B) cells using Caveolin 1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of  $1 \mu\text{g}/1 \times 10^6$  cells was used. Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: Caveolin-1 Antibody (7C8) - Azide and BSA Free [NBP2-80617] - Antibody at 1:200 dilution (ON incubation) on EaHy926 endothelial cell line showing a clear localization in lipid raft/membrane. Photo courtesy of Alberto Davalos, Yale School of Medicine. Image from the standard format of this antibody.

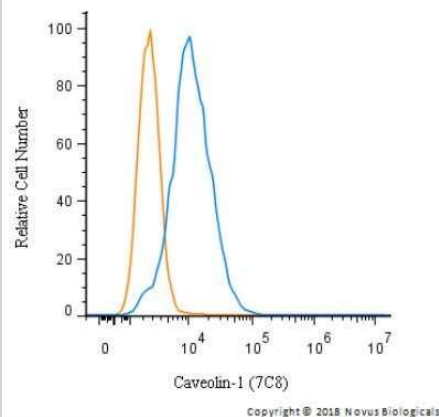


Immunocytochemistry/Immunofluorescence: Caveolin-1 Antibody (7C8) - Azide and BSA Free [NBP2-80617] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-Caveolin-1 [7C8] conjugated to Alexa Fluor 488 (NB100-615AF488) at 20  $\mu\text{g}/\text{mL}$  for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.

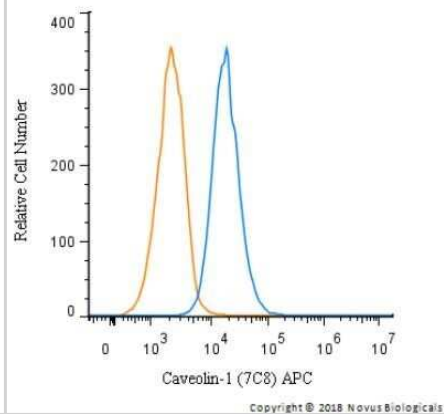


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Flow Cytometry: Caveolin-1 Antibody (7C8) - Azide and BSA Free [NBP2-80617] - An intracellular stain was performed on HeLa cells with Caveolin-1 Antibody (7C8) NB100-615 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems). Image from the standard format of this antibody.



Flow Cytometry: Caveolin-1 Antibody (7C8) - Azide and BSA Free [NBP2-80617] - An intracellular stain was performed on HeLa cells with Caveolin-1 Antibody (7C8) NB100-615APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to allophycocyanin.



## Publications

Collins DP, Osborn MJ, Steer CJ. et al. Differentiation of immortalized human multi-lineage progenitor to alveolar type 2-like cells: angiotensin-converting enzyme 2 expression and binding of severe acute respiratory syndrome coronavirus 2 spike and spike 1 proteins Cytotherapy 2021-08-01 [PMID: 34551876] (ICC/IF, Human)

### Details:

Citation using the Azide and BSA Free format of this antibody.



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-80617**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
H00000857-P01-10ug	Recombinant Human Caveolin-1 GST (N-Term) Protein

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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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