

## ARG30322 Myofibroblast Differentiation Antibody Duo

Package: 1 pair  
Store at: -20°C

### Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG66199	anti-Vimentin antibody [SQab1721]	Rabbit mAb	Hu, Ms	FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB	50 µl
ARG66381	anti-alpha smooth muscle Actin antibody [SQab18108]	Rabbit mAb	Hu, Ms, Rat, AGMK, Bov, Ctl, Dog, Pig, Zfsh	FACS, ICC/IF, IHC-Fr, IHC-P, WB	50 µl

### Summary

**Product Description** Myofibroblast differentiation is a highly regulated process and plays a critical role in tissue repair, wound healing and chronic fibrosis. This antibody duo comprises fibroblast marker Vimentin antibody and myofibroblast marker smooth muscle actin antibody. It is ideal for the research of fibroblast-to-myofibroblast differentiation.

Related news:

[New antibody panels for Myofibroblasts and CAFs](#)

[New antibody panels and duos for Tumor immune microenvironment](#)

[Anti-SerpinB9 therapy, a new strategy for cancer therapy](#)

**Target Name** Myofibroblast Differentiation

**Alternate Names** CAF Marker antibody; Cancer-associated fibroblast Marker antibody; Vimentin antibody; alpha smooth muscle Actin antibody

### Properties

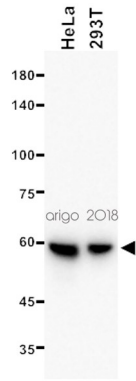
**Storage instruction** For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

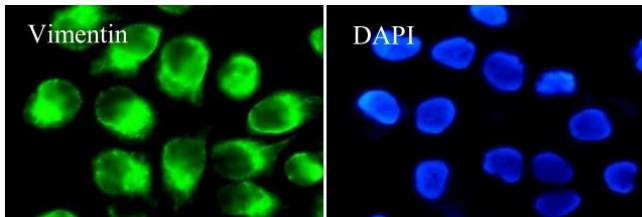
**Gene Full Name** Cancer-associated fibroblast (CAF) Marker Antibody Duo

**Research Area** Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody



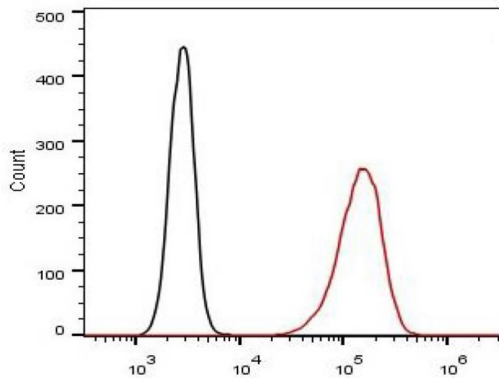
ARG66199 anti-Vimentin antibody [SQab1721] WB image

Western blot: 20 µg of HeLa and 293T cell lysates stained with ARG66199 anti-Vimentin antibody [SQab1721] at 1:1000 dilution.



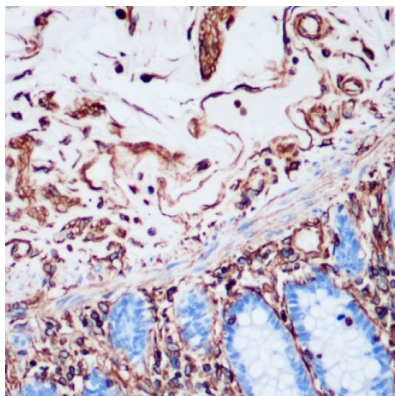
ARG66199 anti-Vimentin antibody [SQab1721] ICC/IF image

Immunofluorescence: HeLa cells were fixed with 4% paraformaldehyde for 30 min at RT, permeabilized with 0.1% Triton X-100 for 10 min at RT then blocked with 10% goat serum for 30 min at room temperature. Cells were stained with ARG66199 anti-Vimentin antibody [SQab1721] (green) at 1:25000 and 4°C. DAPI (blue) was used as the nuclear counter stain.



ARG66199 anti-Vimentin antibody [SQab1721] FACS image

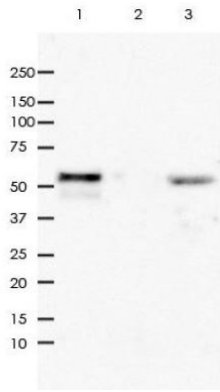
Flow Cytometry: HeLa cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then stained with ARG66199 anti-Vimentin antibody [SQab1721] (red) at 1:500 dilution in 1x PBS/1% BSA for 30 min at 4°C, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (black) was used as a control.



ARG66199 anti-Vimentin antibody [SQab1721] IHC-P image

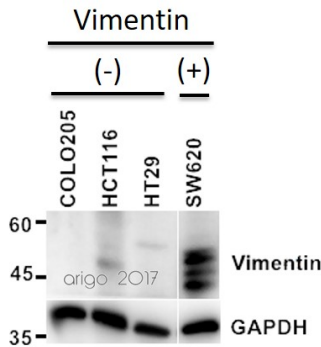
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human colon tissue stained with ARG66199 anti-Vimentin antibody [SQab1721] at 1:1000 dilution.

Antigen retrieval: Heat mediated was performed using Tris/EDTA buffer pH 9.0



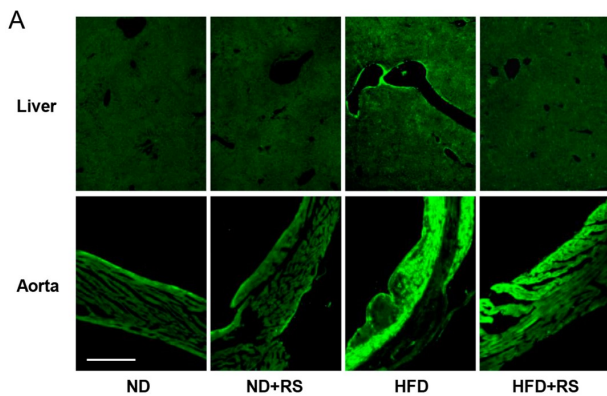
#### ARG66199 anti-Vimentin antibody [SQab1721] IP image

Immunoprecipitation: 0.4 mg of HeLa cell lysate immunoprecipitated and stained with ARG66199 anti-Vimentin antibody [SQab1721]. 1) IP in HeLa whole cell lysate, 2) Rabbit IgG instead of primary antibody in HeLa whole cell lysate and 3) HeLa whole cell lysate, 10  $\mu$ g (input).



#### ARG66199 anti-Vimentin antibody [SQab1721] WB image

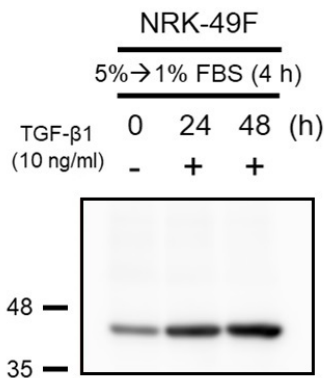
Western blot: 20  $\mu$ g of COLO205, HCT116, HT29 (Vimentin unexpression cell lines) and SW620 (Vimentin expression cell line). Cell lysates stained with ARG66199 anti-Vimentin antibody [SQab1721] at 1:1000 dilution.



#### ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] IHC-Fr image

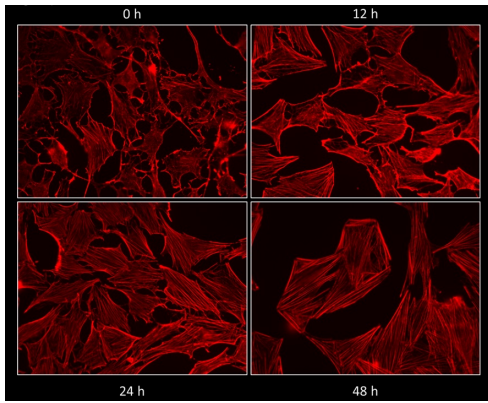
Immunohistochemistry: Mouse liver and Mouse aorta stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] at 1:100 dilution.

From Masahiro Terasawa et al. Cells (2023), [doi: 10.3390/cells12222666](https://doi.org/10.3390/cells12222666), Fig. 2A.



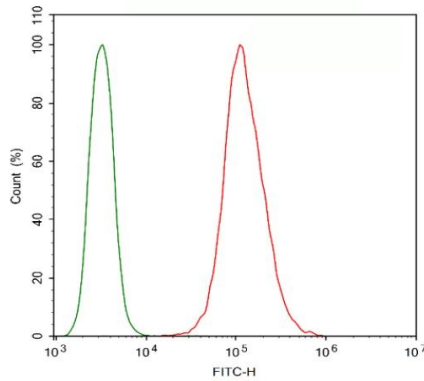
#### ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] WB image

Western blot: 30  $\mu$ g of NRK-49F cells treated with TGF beta 1 (10 ng/ml) for 0~48 hours. Cell lysates were stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] at 1:2000 dilution, overnight at 4°C.



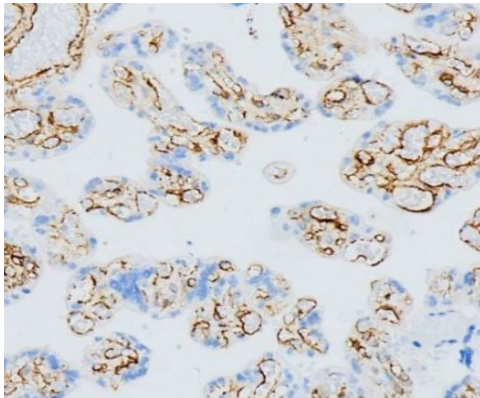
ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108]  
ICC/IF image

Immunofluorescence: NRK-49F cells treated with TGF beta 1 (10 ng/ml) for 0~48 hours. Cells were fixed with 4% PFA for 15 min at room temperature and permeabilized by 0.5% Triton X-100. Cells were stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] at 1:200 dilution, overnight at 4°C.



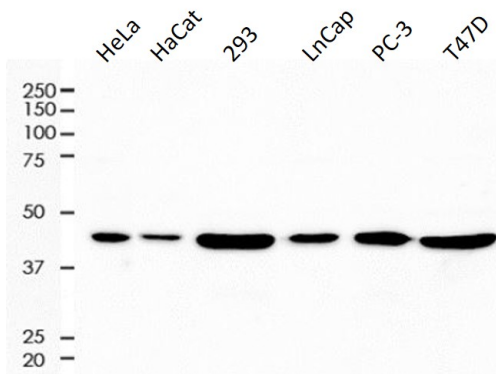
ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108]  
FACS image

Flow Cytometry: HeLa cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] (red) at 1:100 dilution in 1x PBS/1% BSA for 30 min at 4°C, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (green) was used as a control.



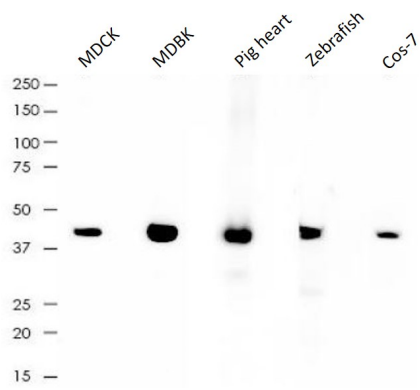
ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108]  
IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded placenta stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] at 1:2000 dilution. Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer (pH 9.0).



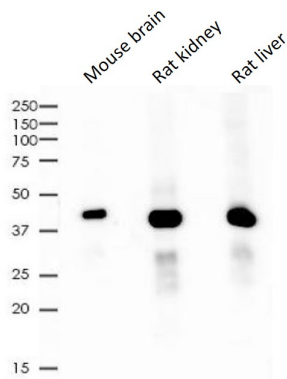
ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108]  
WB image

Western blot: 10 µg of HeLa, HaCat, 293, LnCap, PC-3 and T47D cell lysates stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] at 1:2000 dilution.



ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108]  
WB image

Western blot: 10 µg of MDCK, MDBK, Pig heart, Zebrafish and Cos-7 lysates stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] at 1:2000 dilution.



ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108]  
WB image

Western blot: 10 µg of Mouse brain, Rat kidney and Rat liver lysates stained with ARG66381 anti-alpha smooth muscle Actin antibody [SQab18108] at 1:2000 dilution.