

# Vimentin Monoclonal Antibody (V9), Alexa Fluor™ 488

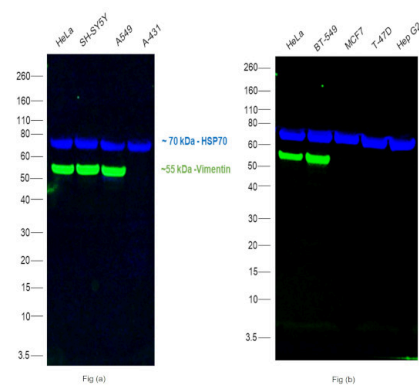
Product Details	
Size	50 µL
Species Reactivity	Bovine, Dog, Chicken, Horse, Cat, Gerbil, Hamster, Human, Mouse, Non-human primate, Pig, Rabbit, Rat
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	V9
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Immunogen	Purified vimentin from pig eye lens
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2662892

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	-
Immunocytochemistry (ICC/IF)	10 µg/mL	-

## Product Specific Information

The MA511883A488 immunogen is purified vimentin from pig eye lens.

Product Images For Vimentin Monoclonal Antibody (V9), Alexa Fluor™ 488

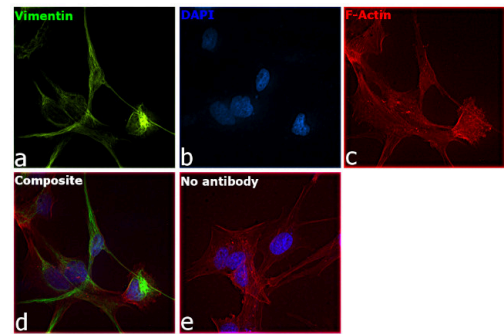


Vimentin Antibody (MA5-11883-A488)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of Vimentin was observed in HeLa, SH-SY5Y, A549, BT549 and not in A-431, MCF7, T-47D and Hep G2 using Anti-Vimentin Monoclonal Antibody (V9), Alexa Fluor™ 488 (Product # MA5-11883-A488) in Western Blot. {RE}

Vimentin Antibody (MA5-11883-A488) in WB

Multiplexed fluorescent western blot was performed using Anti-Vimentin Monoclonal Antibody (V9), Alexa Fluor™ 488 (Product # MA5-11883-A488) and a 55 kDa band corresponding to Vimentin was observed in HeLa, SH-SY5Y, A549 and BT-549 and not in any other cell lines tested. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), SH-SY5Y (Lane 2), A549 (Lane 3) and A-431 (Lane 4) as seen in Fig (a), and whole cell extracts (30 µg lysate) of HeLa (Lane 1), BT-549 (Lane 2), MCF7 (Lane 3), T-47D (Lane 4) and Hep G2 (Lane 5) as seen in Fig (b) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX), 12 well. Resolved proteins were transferred onto a Low-Fluorescence PVDF Transfer Membrane (Product # 22860) using iBlot® 2 Dry Blotting System (Product # IB21001) and blocked with Blocker™ FL Fluorescent Blocking Buffer (10X) (Product # 37565). The blots were probed with the primary antibody Anti-Vimentin Monoclonal Antibody (V9), Alexa Fluor™ 488 (Product # MA5-11883-A488, 1 µg/mL) and HSP70 Polyclonal Antibody (Product # PA5-28003, 1:4000 dilution). Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ Plus 800 (Product # A32808, 1:10000 dilution) secondary antibody was used for detection of HSP70. Fluorescent detection was performed using iBright FL1500 (Product # A44115).



Vimentin Antibody (MA5-11883-A488) in ICC/IF

Immunofluorescence analysis of Vimentin was performed using 70% confluent log phase BT-549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Vimentin Monoclonal Antibody (V9), Alexa Fluor™ 488 (Product # MA5-11883-A488) at 10 µg/mL concentration in 0.1% BSA, incubated at 4 degree celsius overnight (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Alexa Fluor™ 647 Phalloidin (Product #A22287, 1:300 dilution). Panel d represents the merged image showing cytoplasmic (cytoskeleton) localization. Panel e represents control cells with no antibody control to assess background. The images were captured at 60X magnification.

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