

# Vimentin Monoclonal Antibody (V9)

## Product Details

Size	500 µL
Species Reactivity	Bovine, Dog, Chicken, Horse, Cat, Gerbil, Hamster, Human, Mouse, Non-human primate, Pig, Rabbit, Rat
Published Species	Dog, Rabbit, Rat, Pig, Non-human primate, Bovine, Cat, Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	V9
Conjugate	Unconjugated
Immunogen	Purified vimentin from pig eye lens
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10985392

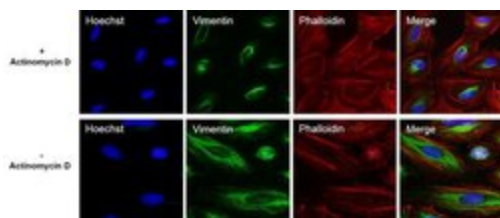
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2 µg/mL	32 Publications
Immunofluorescence (IF)	2 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:50-100	7 Publications
Flow Cytometry (Flow)	-	3 Publications
Immunohistochemistry (IHC)	-	113 Publications
Miscellaneous PubMed (Misc)	-	3 Publications
Neutralization (Neu)	-	1 Publication
Western Blot (WB)	-	39 Publications

## Product Specific Information

MA5-11883 targets Vimentin in IHC (P) applications and shows reactivity with Bovine, Canine, Chicken, Equine, Feline, Gerbil, Hamster, Human, mouse, Non-human primate, Porcine, Rabbit, and Rat samples.

The MA5-11883 immunogen is purified vimentin from pig eye lens.

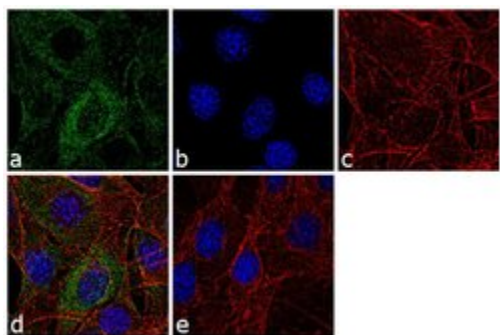
## Advanced Verification Data



### Vimentin Antibody (MA5-11883)

Altered expression or localization of proteins using pharmacological methods demonstrate antibody specificity. Immunocytochemistry of Vimentin using a Vimentin mouse monoclonal antibody (Product # MA5-11883), shows disruption of intermediate filaments in HeLa cells upon treatment with Actinomycin D compared to untreated cells. Cell treatment validation info.

## Product Images For Vimentin Monoclonal Antibody (V9)



### Vimentin Antibody (MA5-11883) in IF

Immunofluorescence analysis of Vimentin was performed using 70% confluent log phase NIH/3T3 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Vimentin (V9) Mouse Monoclonal Antibody (Product # MA5-11883) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



### Vimentin Antibody (MA5-11883) in IF

Immunofluorescent analysis of Vimentin (green) in HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and blocked with 3% Blocker BSA (Product # 37525) in PBS for 30 minutes at room temperature. Cells were stained with a Nucleophosmin monoclonal antibody (Product # MA5-11883) at a concentration of 10 µg/mL for 1 hour at room temperature, and then incubated with a Goat anti-Mouse IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:1000 for 1 hour at room temperature (green). Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight at 20X magnification.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## Immunohistochemistry (113)

Journal of Cancer

### Establishment and Characterization of gc-006-03, a Novel Human Signet Ring Cell Gastric Cancer Cell Line Derived from Metastatic Ascites.

"MA5-11883 was used in Immunohistochemistry to study a new cell line by use of whole genome sequencing techniques which may be useful in researching gastric signet ring cell carcinoma."

Authors: Su X,Xue Y,Wei J,Huo X,Gong Y,Zhang H,Han R,Chen Y,Chen H,Chen J

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

Folia histochemica et cytobiologica

### Age-associated functional morphology of thyroid and its impact on the expression of vimentin, cytokeratins and VEGF. The role of nigella in refinement.

"MA5-11883 was used in Immunohistochemistry to clarify the relationship between oxidative/antioxidative stress markers and cytoskeletal intermediate filaments (vimentin and cytokeratin) and oxidative/antioxidative stress markers as well as vascular endothelial growth factor (VEGF) during aging. Additionally, the role of Nigella sativa (NS) oil in ameliorating age-related alterations of the structure and function of the thyroid gland was studied."

Authors: Zaki SM,Mohamed EA,Abdel Fattah S,Abdullah H,Kaszubowska L

**Species**  
Rat

**Dilution**  
1:100

**Year**  
2018

[View more IHC references on thermofisher.com](#)

## Western Blot (39)

Biology open

### Surface expression marker profile in colon cancer cell lines and sphere-derived cells suggests complexity in CD26<sup>+</sup> cancer stem cells subsets.

"Published figure using Vimentin monoclonal antibody (Product # MA5-11883) in Western Blot"

Authors: Vázquez-Iglesias L,Barcia-Castro L,Rodríguez-Quiroga M,Páez de la Cadena M,Rodríguez-Berrocá J, Cordero OJ

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

The Journal of clinical investigation

### TNF overproduction impairs epithelial staphylococcal response in hyper IgE syndrome.

"MA5-11883 was used in Western Blotting to study the cutaneous immune response in autosomal dominant hyper IgE syndrome."

Authors: Myles IA,Anderson ED,Earland NJ,Zarembek KA,Sastalla I,Williams KW,Gough P,Moore IN,Ganesan S,Fowler CJ,Laurence A,Garofalo M,Kuhns DB,Kieh MD,Saleem A,Welch PA,Darnell DA,Gallin JI,Freeman AF,Holland SM,Datta SK

**Species**  
Mouse

**Dilution**  
1:50

**Year**  
2018

[View more WB references on thermofisher.com](#)

## More applications with references on thermofisher.com

IF (1)   Flow (3)   ICC (32)   IHC (P) (7)   Misc (3)   Neu (1)

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