

Product datasheet for **UM870054**

Vimentin (VIM) Mouse Monoclonal Antibody [Clone ID: UMAB159]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB159
Applications:	IF, IHC, WB
Recommended Dilution:	IHC 1:200
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 210-466 of human VIM (NP_003371) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	53.5 kDa
Gene Name:	vimentin
Database Link:	NP_003371 Entrez Gene 22352 Mouse Entrez Gene 81818 Rat Entrez Gene 7431 Human P08670



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Background:

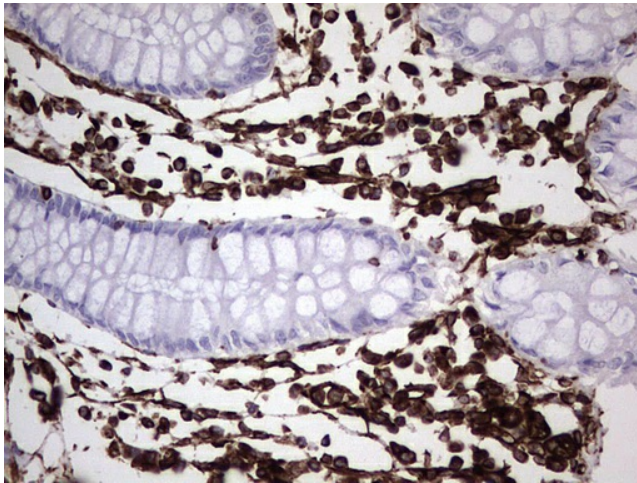
This gene encodes a member of the intermediate filament family. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this gene is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent cataract. [provided by RefSeq, Jun 2009]

Synonyms:

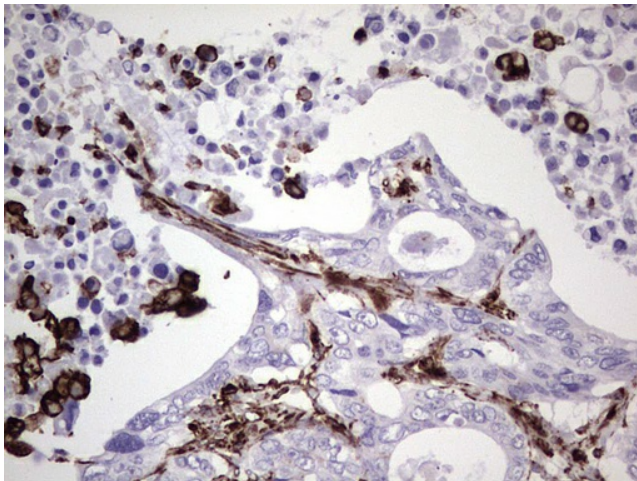
CTRCT30; HEL113

Protein Families:

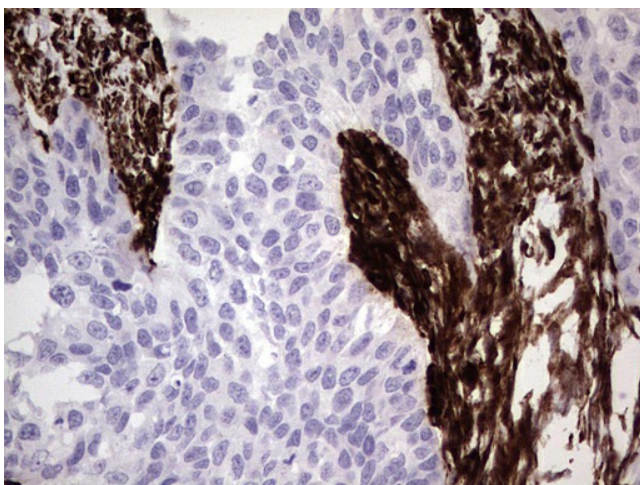
ES Cell Differentiation/IPS

Product images:

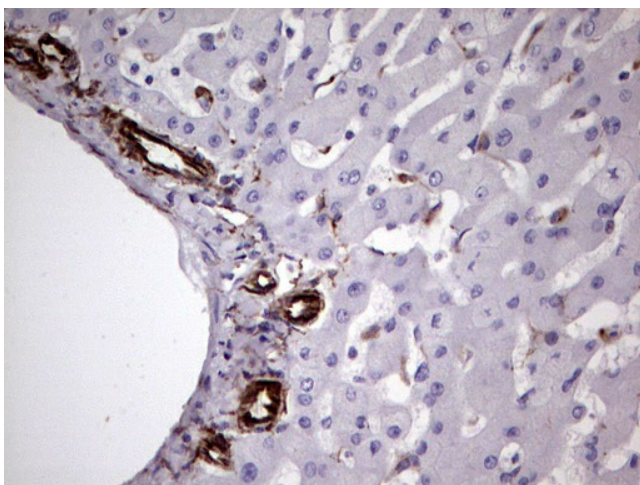
Immunohistochemical staining of paraffin-embedded Human colon tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



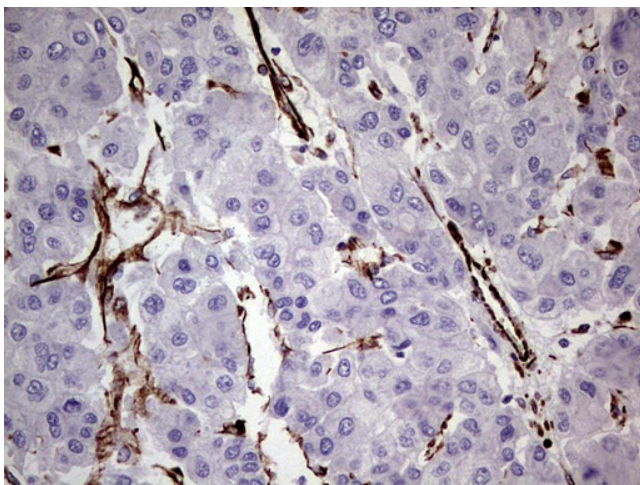
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



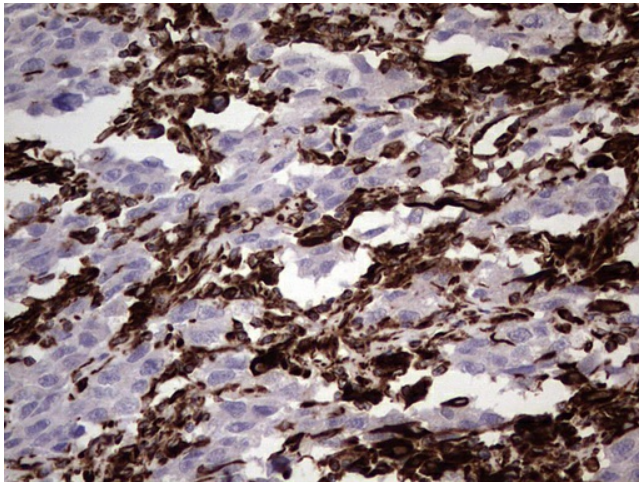
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



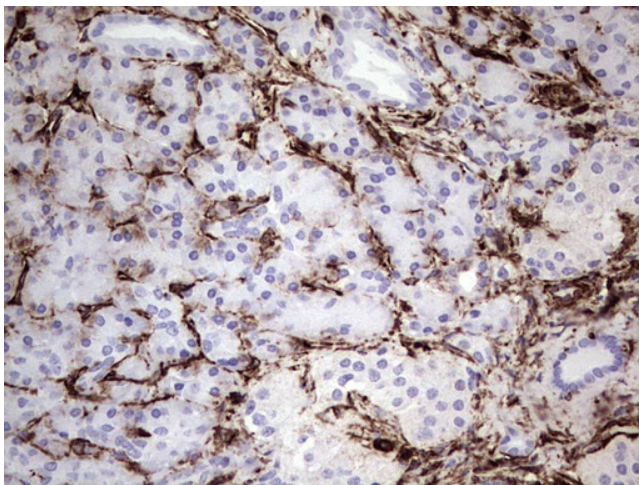
Immunohistochemical staining of paraffin-embedded Human liver tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



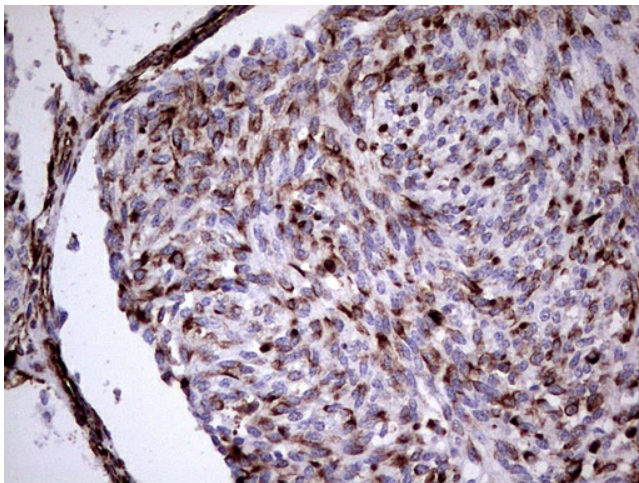
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



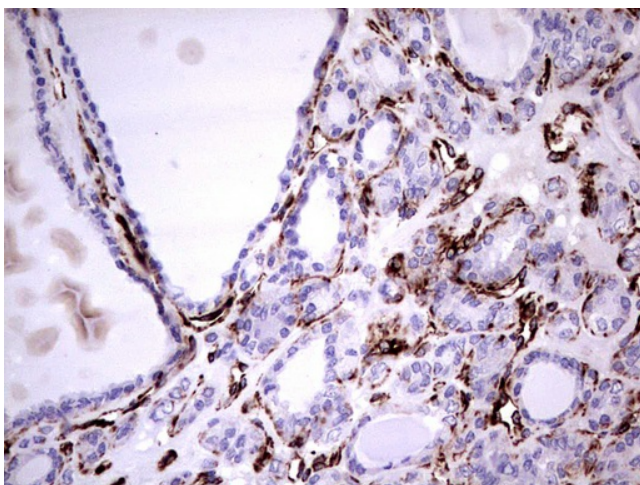
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



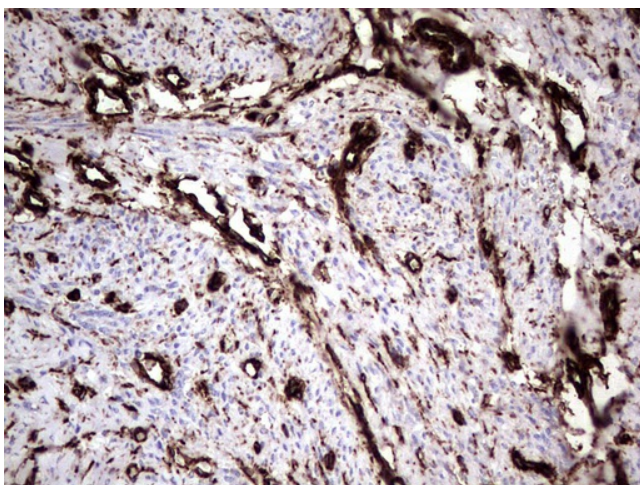
Immunohistochemical staining of paraffin-embedded Human pancreas tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



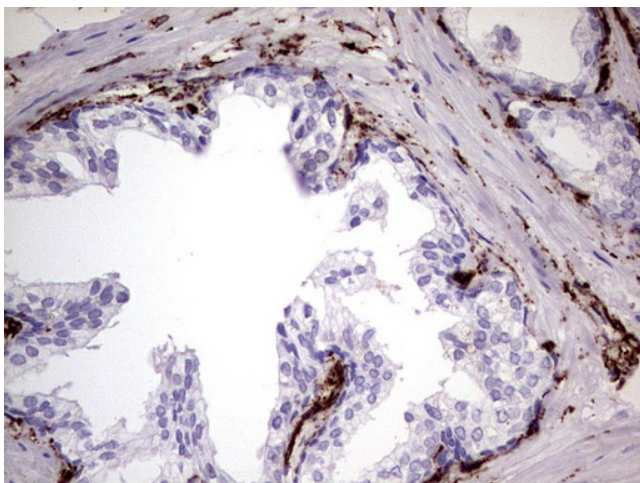
Immunohistochemical staining of paraffin-embedded Human thyroid tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



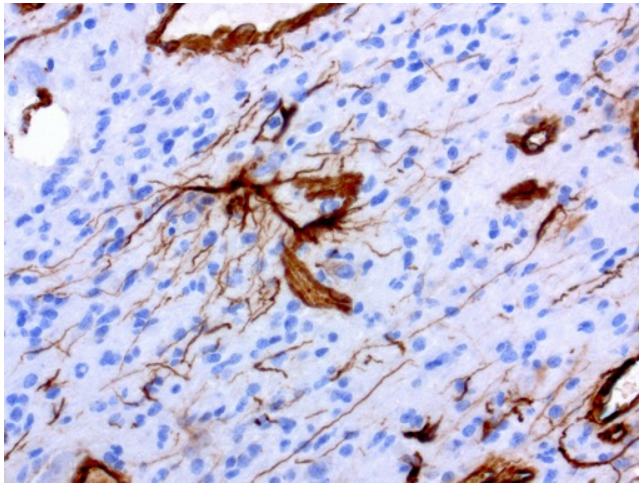
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



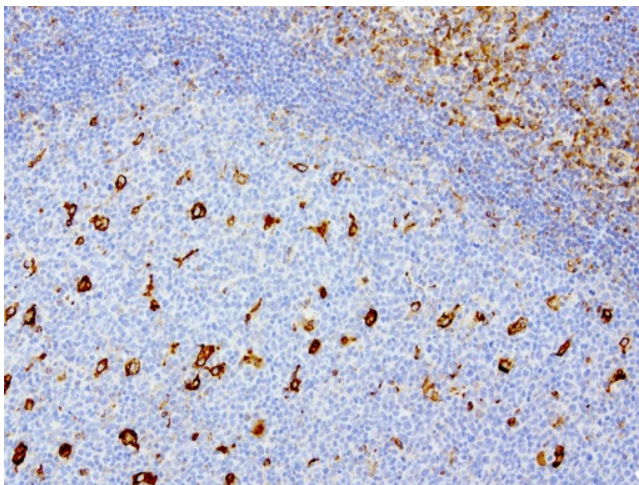
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



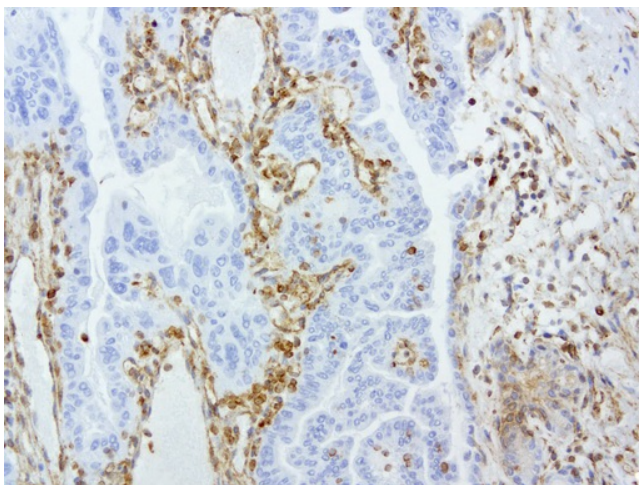
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-VIM mouse monoclonal antibody. ([UM800054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.0, 120°C for 3min) (1:200)



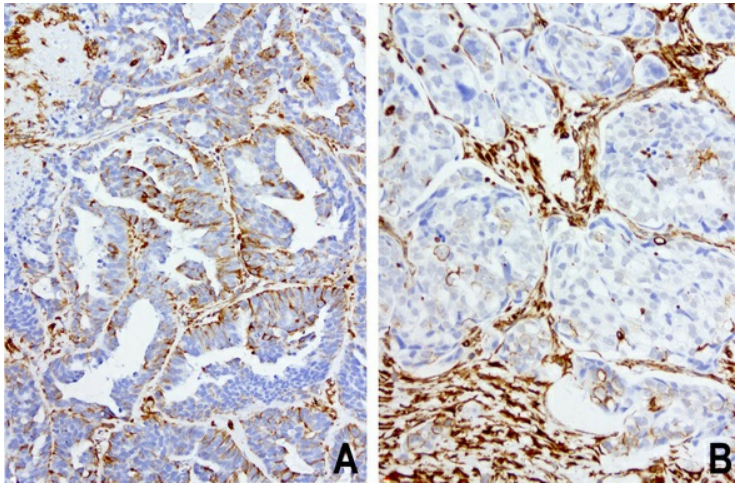
Immunohistochemical staining of paraffin-embedded human glioma using anti-vimentin clone UMAB159 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. [UM800054] requires HIER with with Accel 3in1 EDTA solution pH8.7 at 110°C for 3min using pressure chamber/cooker. The neural cells shows membrane and cytoplasmic staining.



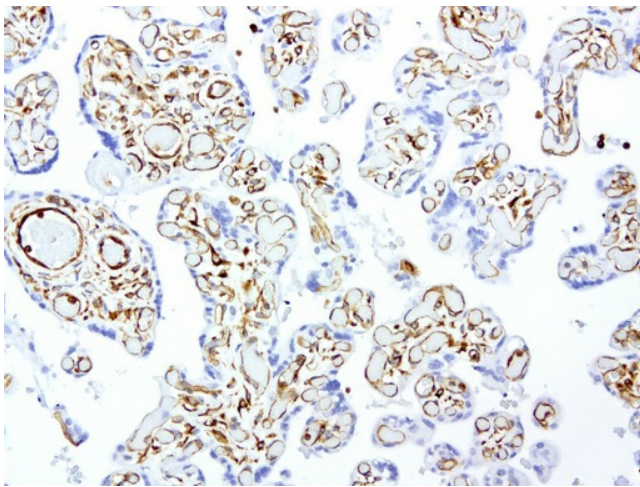
Immunohistochemical staining of paraffin-embedded human tonsil using anti-Vimentin clone UMAB159 mouse monoclonal antibody ([UM800054]) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer usin



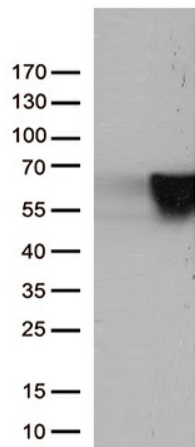
Immunohistochemical staining of paraffin-embedded human three cases of gastric cancer using anti-Vimentin clone UMAB159 mouse monoclonal antibody ([UM800054]) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate



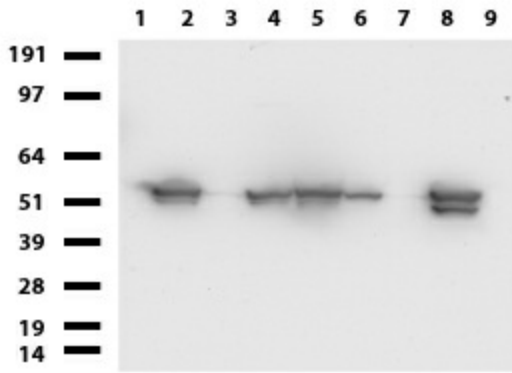
Immunohistochemical staining of two case of paraffin-embedded human ovarian cancer using anti-Vimentin clone UMAB159 mouse mAb ([UM800054]) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer



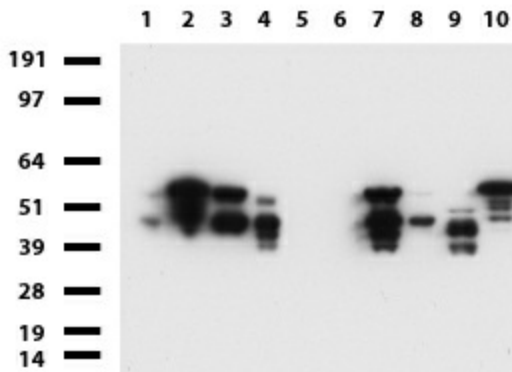
Immunohistochemical staining of paraffin-embedded human placenta using anti-Vimentin clone UMAB159 mouse monoclonal antibody ([UM800054]) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer us



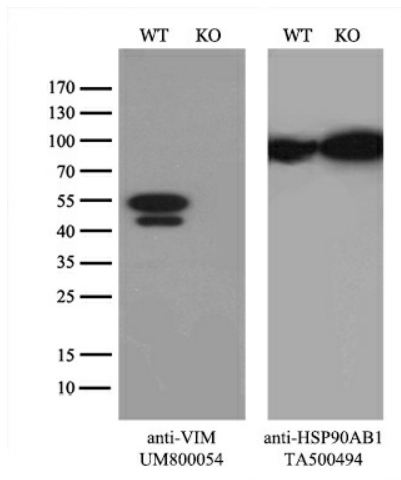
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY VIM ([RC201546], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VIM (1:500).



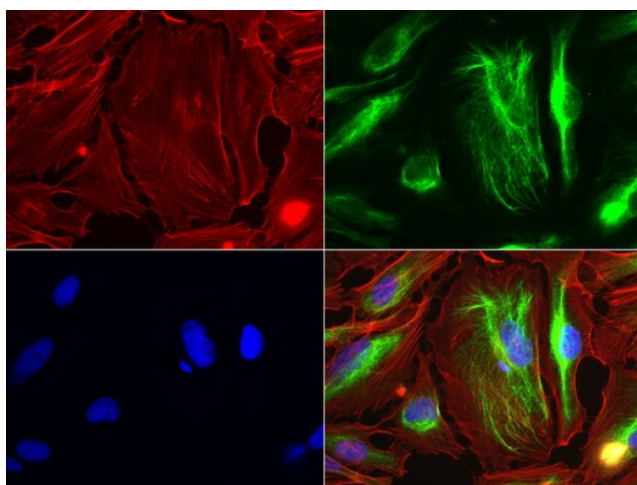
Western blot of cell lysates (35ug) from 9 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: A549, 5: COS7, 6: Jurkat, 7: PC-12, 8: MDCK, 9: MCF7).



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Colon, 9: Spleen, 10: Thyroid). Dilution: 1:500.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and VIM-Knockout HeLa cells (KO, Cat# [LC810257]) were separated by SDS-PAGE and immunoblotted with anti-VIM monoclonal antibody [UM800054], (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.



Immunofluorescent staining of HeLa cells using anti-Vimentin mouse monoclonal antibody ([UM800054], green, 1:100). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).