



Rabbit Anti-Vimentin antibody

SL8533R

Product Name:	Vimentin
Chinese Name:	波形蛋白抗体
Alias:	VIM; FLJ36605; OTTHUMP00000019224; VIM; VIME HUMAN; Vimentin.
文献引用 PubMed :	<p>Specific References(4) SL8533R has been referenced in 4 publications.</p> <p>[IF=2.52]Yang, Ning, et al. "Overexpression of SOX2 promotes migration, invasion, and epithelial-mesenchymal transition through the Wnt/β-catenin pathway in laryngeal cancer Hep-2 cells." Tumor Biology (2014): 1-9.WB;Human. PubMed:24833089</p> <p>[IF=4.14]He, D., et al. "Enhanced M1/M2 Macrophage Ratio Promotes Orthodontic Root Resorption." Journal of Dental Research (2014): 0022034514553817.Rat. PubMed:25344334</p> <p>[IF=4.42]Gao, Lili, et al. "Glycyrrhizic acid alleviates bleomycin-induced pulmonary fibrosis in rats." Frontiers in pharmacology 6 (2015).WB;Rat. PubMed:26483688</p> <p>[IF=1.56]Huang, Chao, et al. "Analysis of different components in the peritumoral tissue microenvironment of colorectal cancer: A potential prospect in tumorigenesis. Corrigendum in/10.3892/mmr. 2016.5882." Molecular Medicine Reports 14.3 (2016): 2555-2565.IHC-P;Human. PubMed:27484148</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-

	Cyt=1µg/Test ICC=1:100-500 IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	51kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Vimentin:371-466/466
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>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]</p> <p>Function: Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2. Subunit : Homopolymer assembled from elementary dimers. Interacts with HCV core protein. Interacts with LGSN and SYNLM. Interacts (via rod region) with PLEC (via CH 1 domain) (By similarity). Interacts with SLC6A4. Interacts with STK33. Interacts with LARP6. Interacts with RAB8B (By similarity).</p> <p>Subcellular Location: Cytoplasm.</p> <p>Tissue Specificity: Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.</p> <p>Post-translational modifications: Filament disassembly during mitosis is promoted by phosphorylation at Ser-55 as well</p>

as by nestin. One of the most prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enhanced during cell division, at which time vimentin filaments are significantly reorganized. Phosphorylation by PKN1 inhibits the formation of filaments. Phosphorylated at Ser-56 by CDK5 during neutrophil secretion in the cytoplasm. Phosphorylated by STK33.

Similarity:

Belongs to the intermediate filament family.

SWISS:

P08670

Gene ID:

7431

Database links:

[Entrez Gene: 7431](#) Human

[Entrez Gene: 22352](#) Mouse

[Entrez Gene: 81818](#) Rat

[Omim: 193060](#) Human

[SwissProt: P08670](#) Human

[SwissProt: P20152](#) Mouse

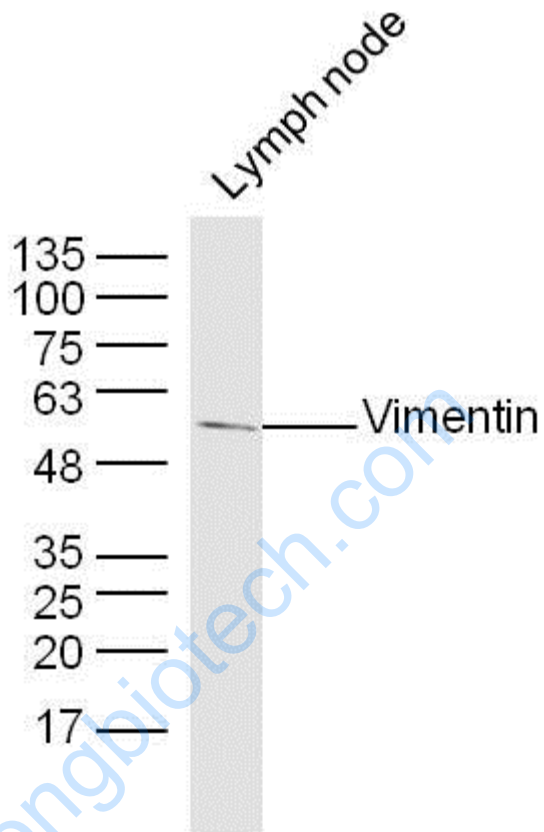
[SwissProt: P31000](#) Rat

[Unigene: 455493](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



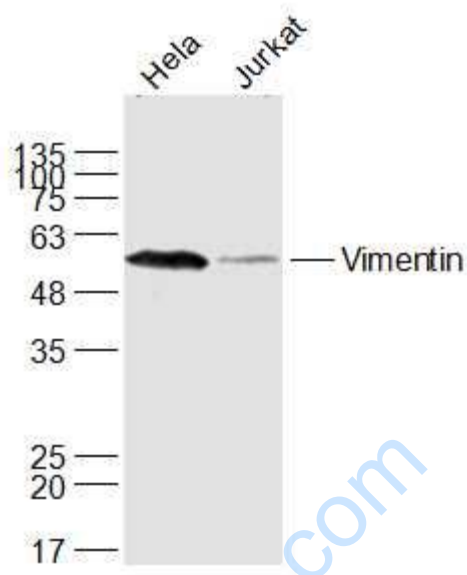
Sample: lymph node (Mouse) Lysate at 40 ug

Primary: Anti-Vimentin(SL8533R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kD

Observed band size: 51 kD



Sample:

A549(Human) Cell Lysate at 30 ug

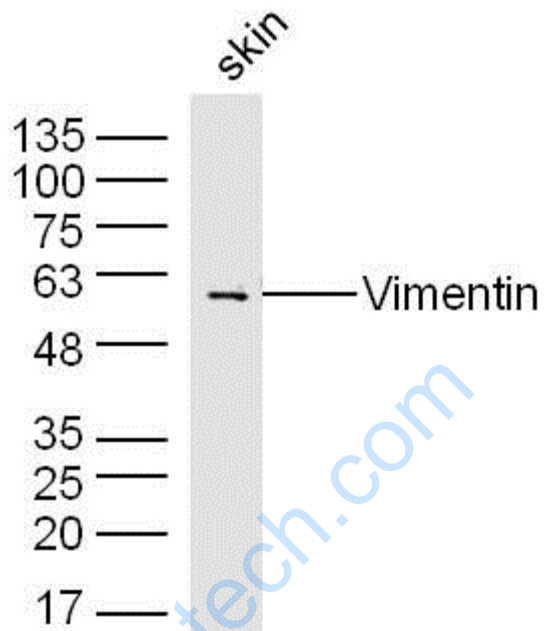
Jurkat(Human) Cell Lysate at 30 ug

Primary: Anti-Vimentin ? (SL8533R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kD

Observed band size: 53 kD



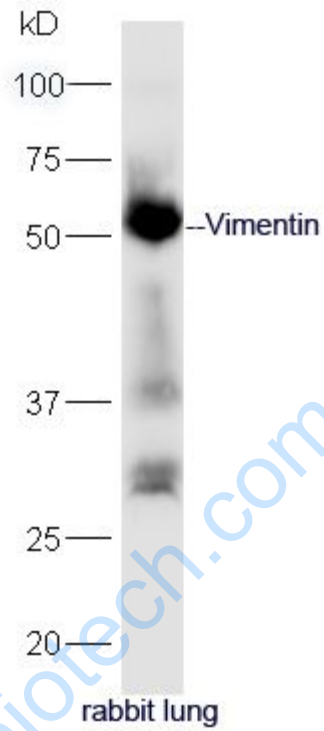
Sample: skin(Mouse) Lysate at 40 ug

Primary: Anti-Vimentin(SL8533R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kD

Observed band size: 51 kD



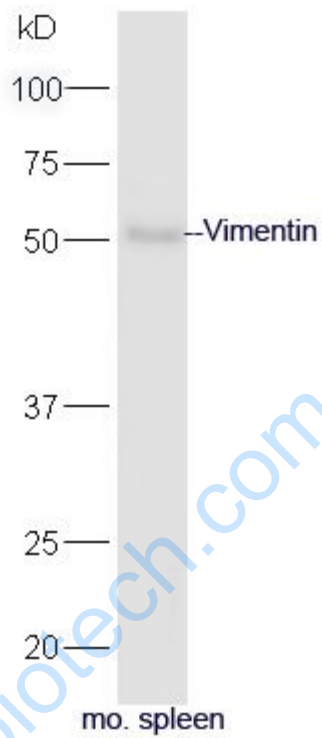
Protein: lung(rabbit) lysate at 40ug;

Primary: rabbit Anti-Vimentin (SL8533R) at 1:300;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL8533R) at 1: 5000;

Predicted band size: 51 kD

Observed band size: 51 kD



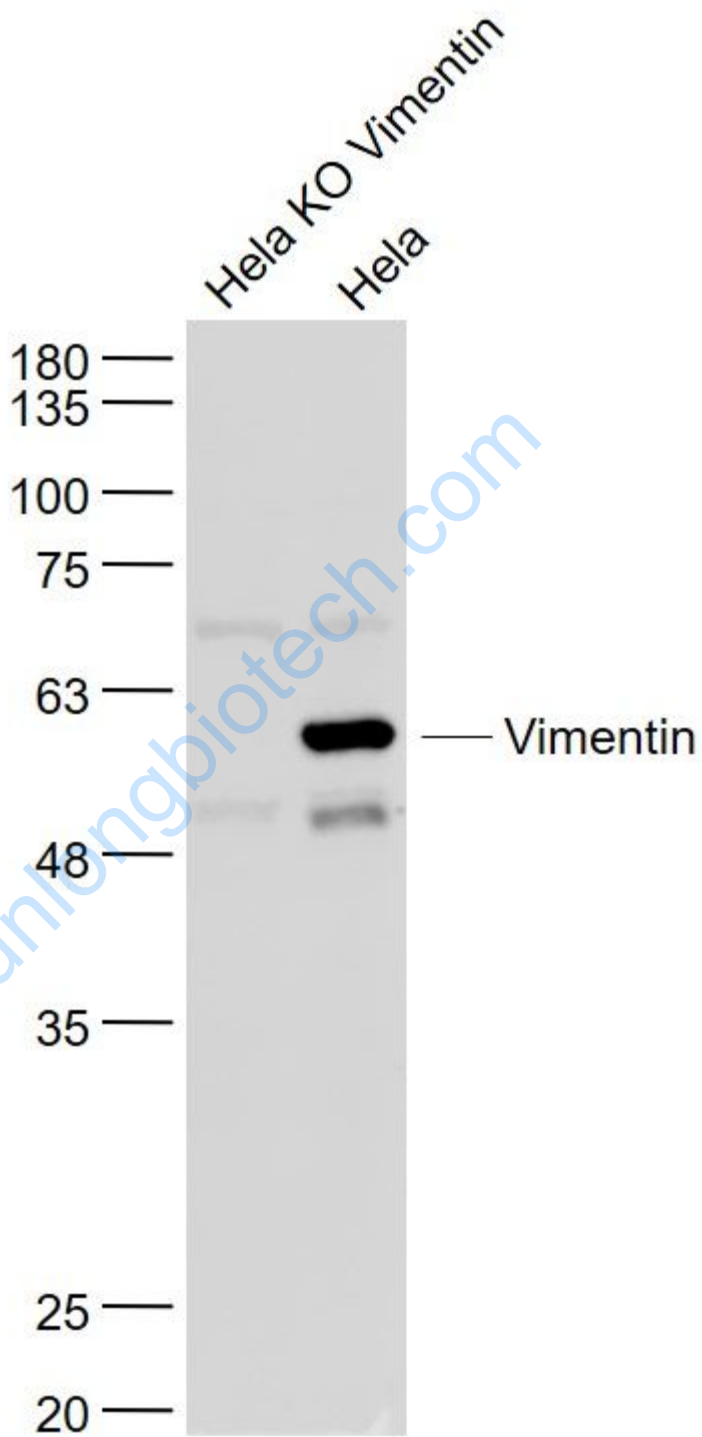
Protein: spleen(mouse) lysate at 40ug;

Primary: rabbit Anti-Vimentin (SL8533R) at 1:300;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL8533R) at 1: 5000;

Predicted band size: 51 kD

Observed band size: 51 kD



Sample:

HeLa KO Vimentin (Human) Cell Lysate at 30 ug

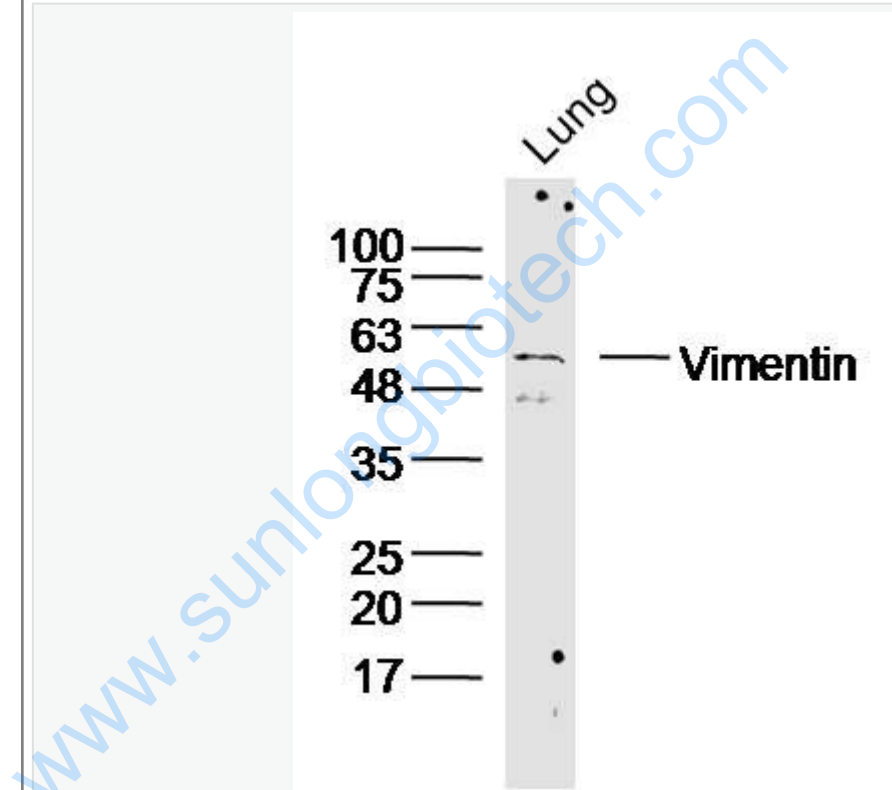
Hela(Human) Cell Lysate at 30 ug

Primary: Anti- Vimentin (SL8533R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kD

Observed band size: 57 kD



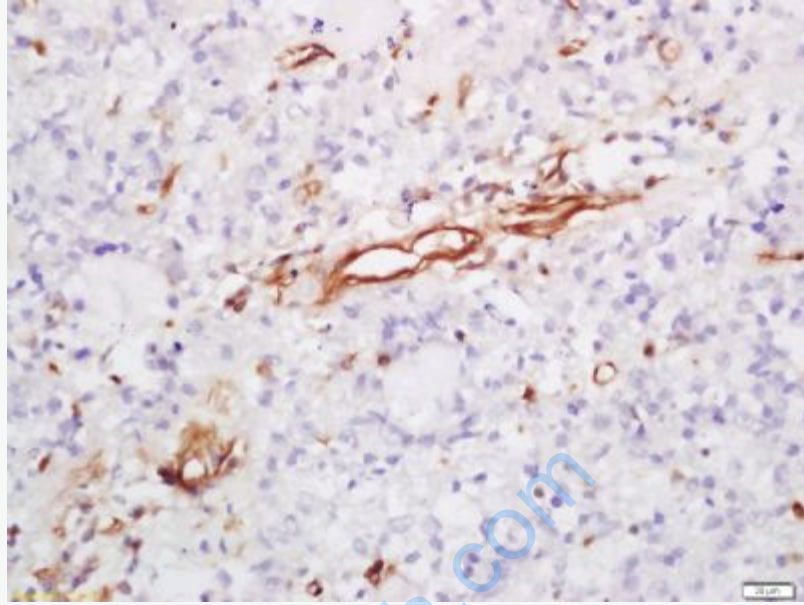
Sample: Lung (Mouse) Lysate at 40 ug

Primary: Anti-Vimentin (SL8533R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51kD

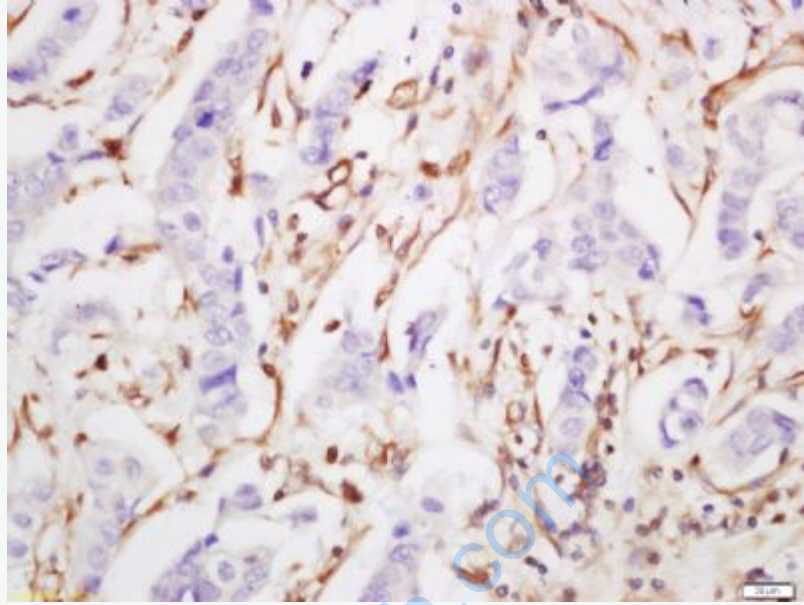
Observed band size: 51kD



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

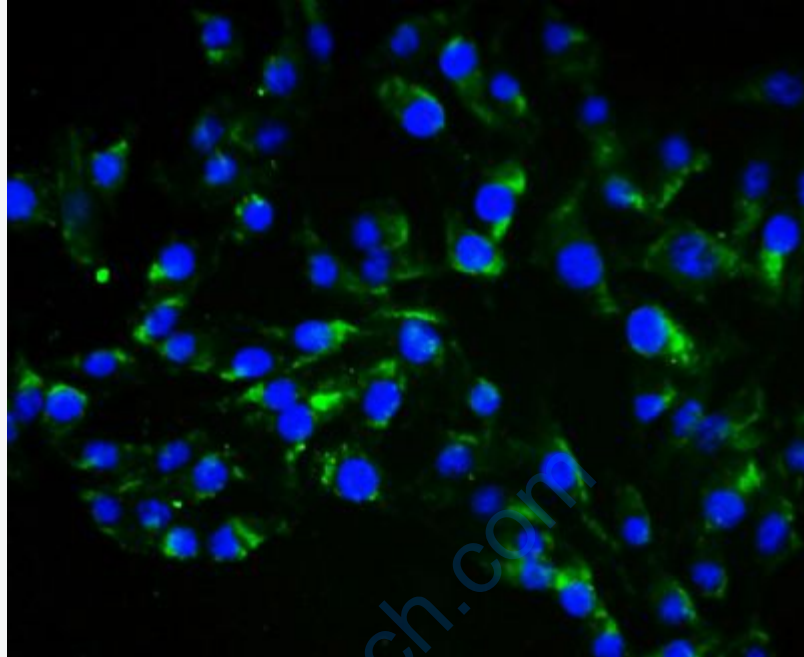
Incubation: Anti-Vimentin Polyclonal Antibody, Unconjugated(SL8533R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



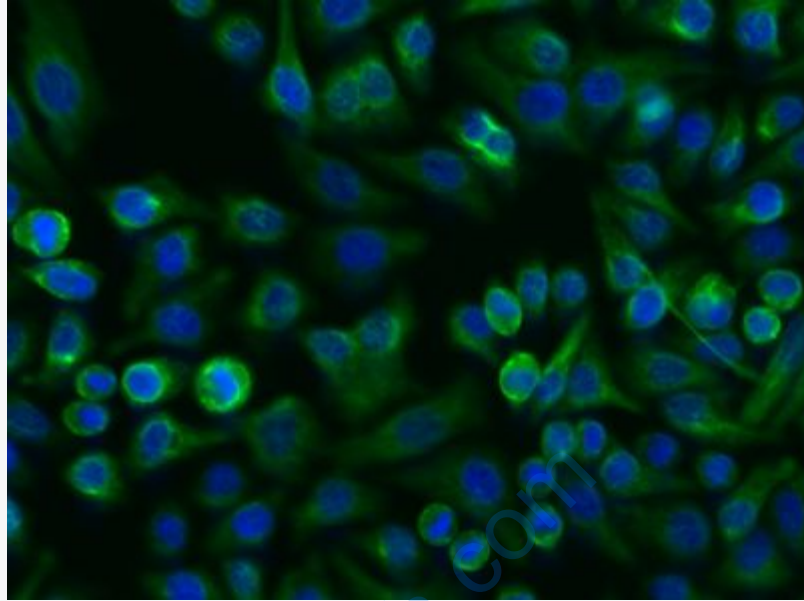
Tissue/cell: human breast carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

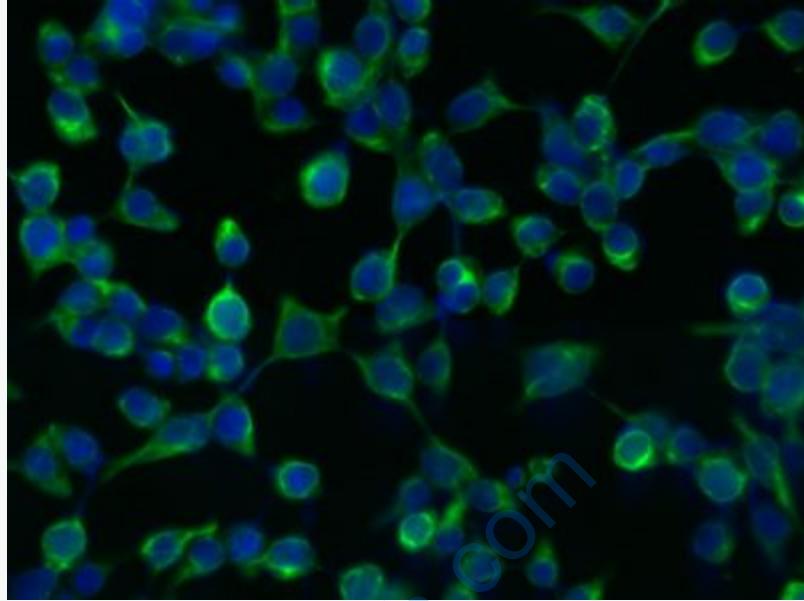
Incubation: Anti-Vimentin Polyclonal Antibody, Unconjugated(SL8533R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



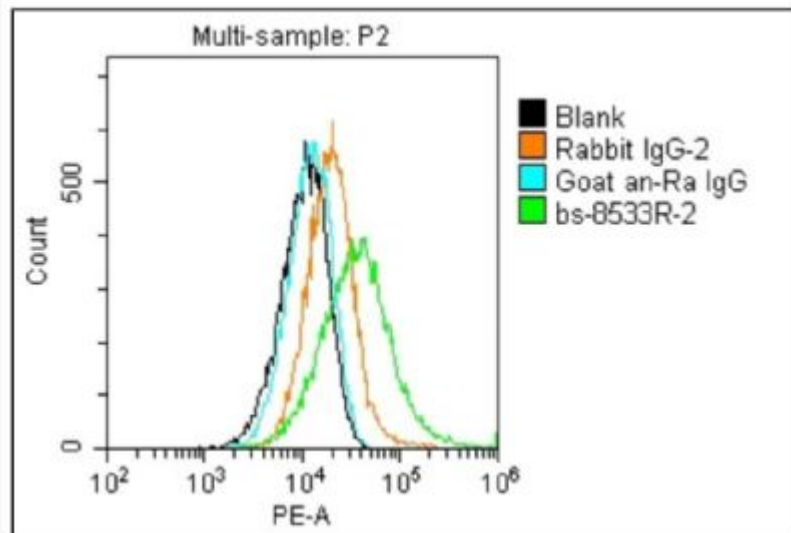
Tissue/cell: endothelial cells of umbilical artery;4% Paraformaldehyde-fixed;
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Vimentin Polyclonal Antibody, Alexa Fluor 488
conjugated(SL8533R) 1:100, 60 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was
used to stain the cell nuclei



Tissue/cell: FHC cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) Polyclonal Antibody, Unconjugated (SL8533R) 1:200, 2 hours at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (SL8533R) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.



Tissue/cell: 293T cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) Polyclonal Antibody, Unconjugated (SL8533R) 1:200, 2 hours at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (SL8533R) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.



Blank control (blue line): U251(blue).

Primary Antibody (green line): Rabbit Anti-Vimentin antibody (SL8533R)

Dilution: 2 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution: 1 μ g /test.

Protocol

The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.