SunLong Biotech Co.,LTD
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Rabbit Anti-Vimentin antibody

SL8533R

Product Name	**[KO validated anti]** Vimentin
Chinese Name	波形蛋白抗体
Alias	VIM; FLJ36605; OTTHUMP00000019224; VIM; VIME_HUMAN; Vimentin.
Research Area	Tumour Cell biology immunology Signal transduction Stem cells Cytoskeleton TumourCell biol
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit)
Applications	WB=1:1000-5000,IHC-P=1:200-1000,IHC-F=1:200-1000,ICC/IF=1:100-500,IF=1:200-1000,Fl （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	51kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Vimentin: 371-466/466
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit)1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.
PubMed	PubMed
Product Detail	This gene encodes a member of the intermediate filament family. Intermediate filamentents, alor microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this g

for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It i
the immune response, and controls the transport of low-density lipoprotein (LDL)-derived chole
lysosome to the site of esterification. It functions as an organizer of a number of critical proteins
attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent c
by RefSeq, Jun 2009]

Function:
Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially m
Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or
Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2. Su
Homopolymer assembled from elementary dimers. Interacts with HCV core protein. Interacts wi
SYNM. Interacts (via rod region) with PLEC (via CH 1 domain) (By similarity). Interacts with S
with STK33. Interacts with LARP6. Interacts with RAB8B (By similarity).

Subcellular Location:
Cytoplasm.

Tissue Specificity:
Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expre
lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

Post-translational modifications:
Filament disassembly during mitosis is promoted by phosphorylation at Ser-55 as well as by nes
most prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enh
division, at which time vimentin filaments are significantly reorganized. Phosphorylation by PK
formation of filaments. Phosphorylated at Ser-56 by CDK5 during neutrophil secretion in the cy
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

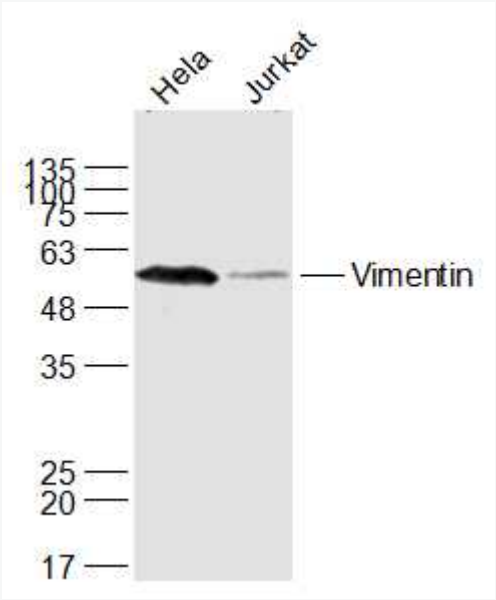
SwissProt: P08670 Human

SwissProt: P20152 Mouse

SwissProt: P31000 Rat

Unigene: 455493 Human

Product Picture



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

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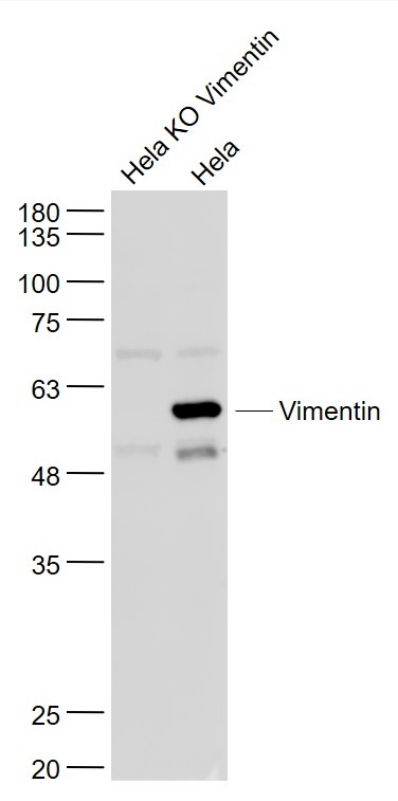
Observed band size: 53 kD



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

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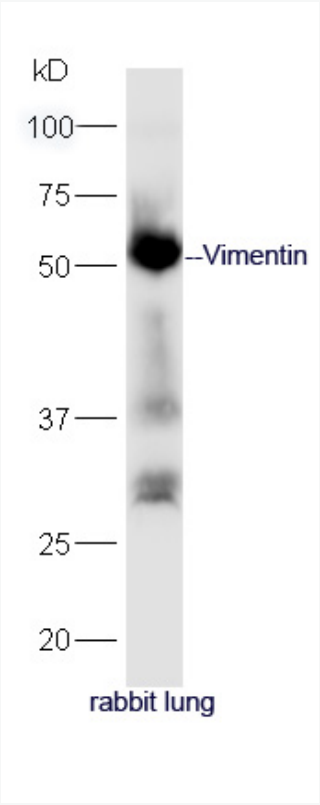

Protein: lung(rabbit) lysate at 40ug;

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

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000;

Predicted band size: 51 kD

Observed band size: 51 kD

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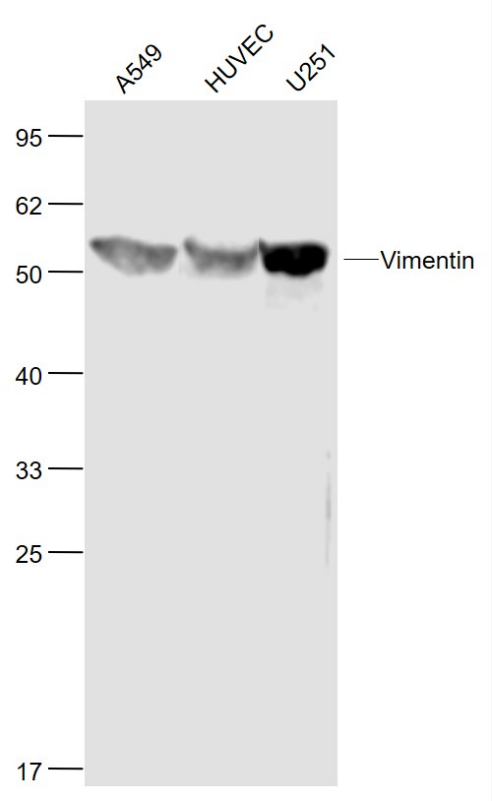

Sample:

A549(Human) Cell Lysate at 30 ug

HUVEC(Human) Cell Lysate at 30 ug

U251(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: 53 kD

Observed band size: 53 kD

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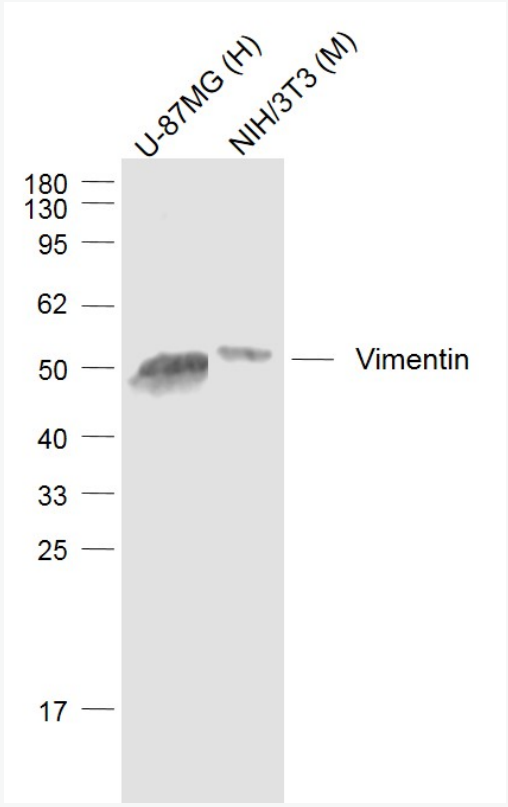

Sample:

U-87MG (Human) Cell Lysate at 30 ug

NIH/3T3 (Mouse) 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

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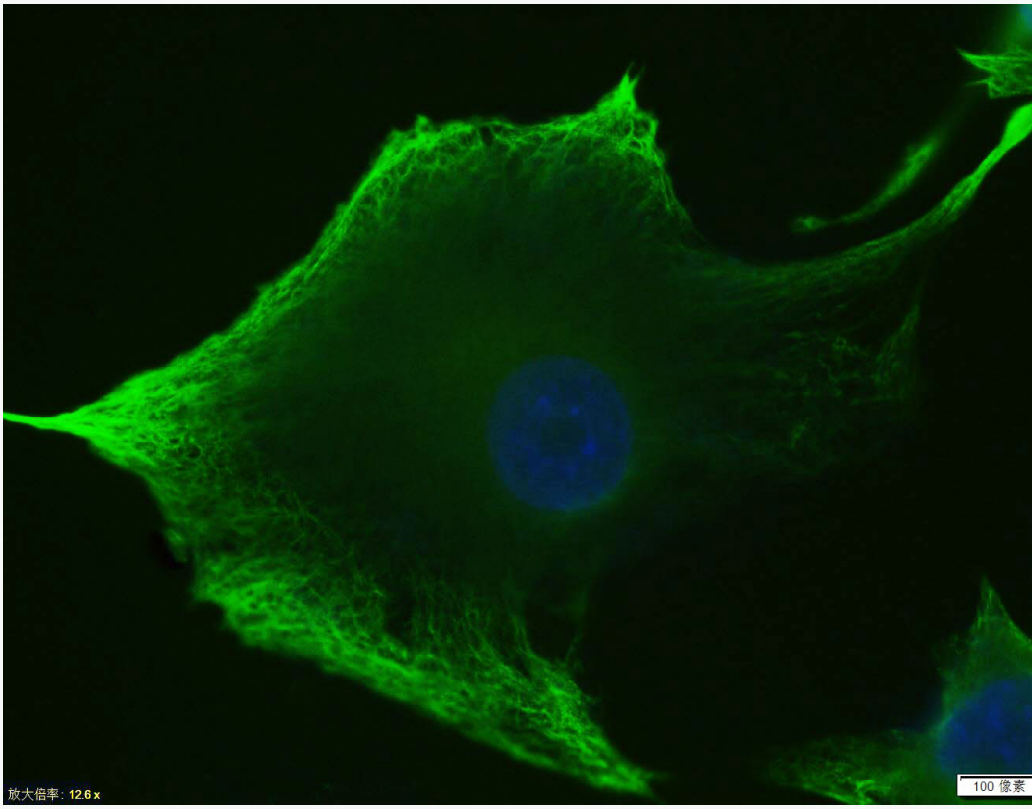

Tissue/cell: U-87MG cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for

Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (

Polyclonal Antibody, Unconjugated (SL8533R)antibody (SL0295G-FITC) at 37°C for 90 min

(blue, C02-04002) was used to stain the cell nuclei.

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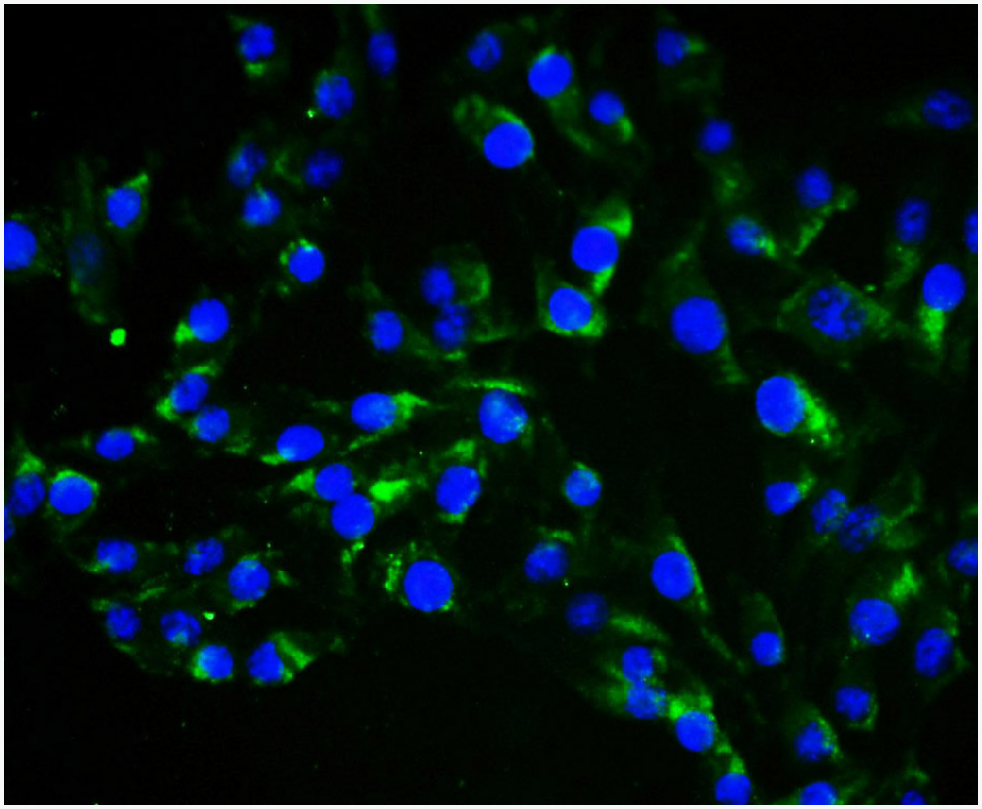

Tissue/cell: endothelial cells of umbilical artery;4% Paraformaldehyde-fixed;

Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Vimentin Polyclonal Antibody, Alexa Fluor 488 conjugated(SL8533R-A488

minutes at 37℃. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

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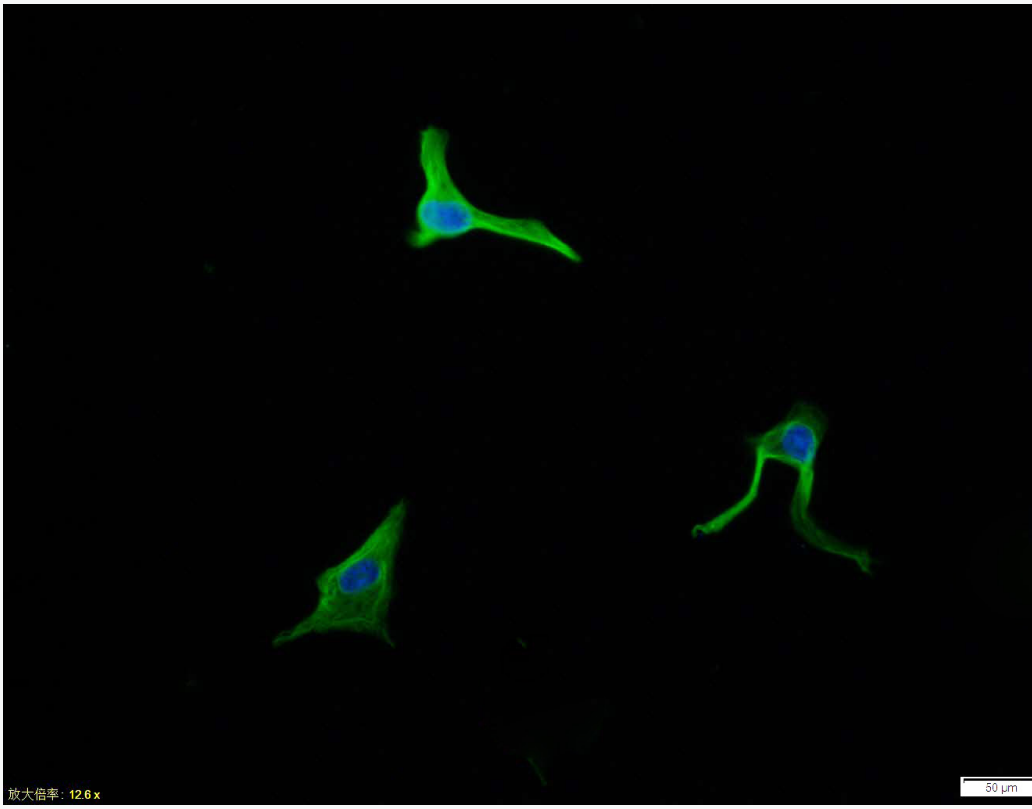

Tissue/cell: U-87MG cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for

Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (

polyclonal Antibody, Unconjugated (SL8533R) 1:100, 90 minutes at 37°C; followed by a con

Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain

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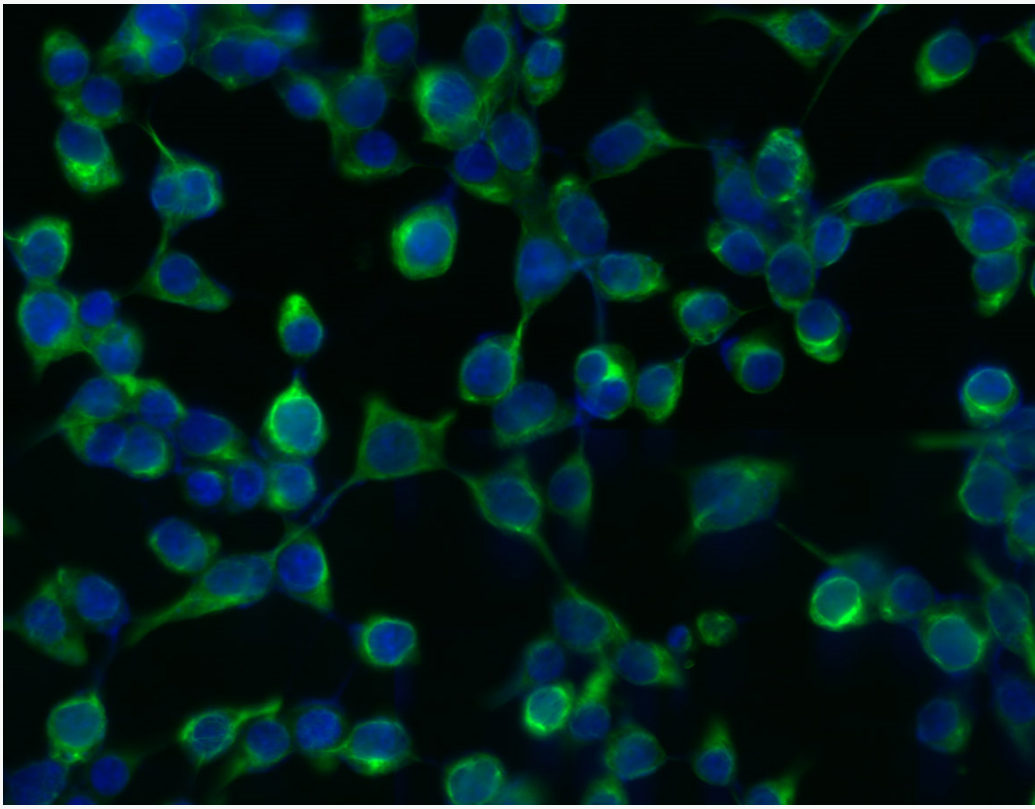

Tissue/cell: 293T cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) Antibody, Unconjugated (SL8533R) 1:200, 2 hours at 37°C; followed by a conjugated Goat A antibody (SL0295G-FITC) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to nuclei.

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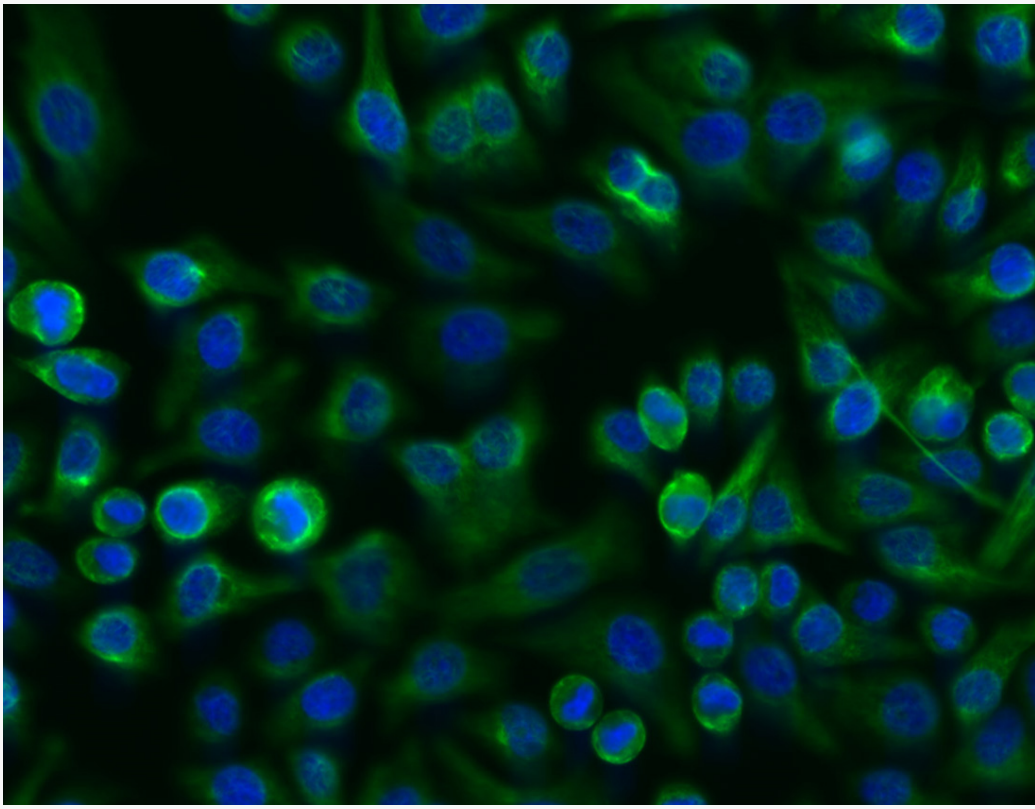

Tissue/cell: FHC cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 m buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) Antibody, Unconjugated (SL8533R) 1:200, 2 hours at 37°C; followed by a conjugated Goat A antibody (SL0295G-FITC) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to nuclei.

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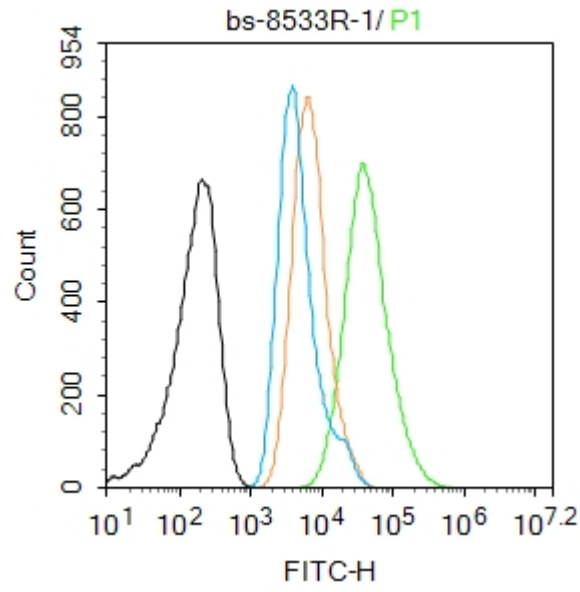

Blank control:A549.

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

Dilution: 1μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF488

Dilution: 1μg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 9

methanol for 20 min at -20℃. The cells were then incubated in 5%BSA to block non-specific

interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min a

temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,

performed.