

# [KD Validated] Vimentin Rabbit mAb

Catalog No.: A19607 **Recombinant** **184 Publications**

## Basic Information

### Observed MW

50-60 kDa

### Calculated MW

54 kDa

### Category

Primary antibody

### Applications

WB,Auto WB,IP,IF/ICC,IF-P,IHC-P,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0086

## Background

This gene encodes a type III intermediate filament protein. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. The encoded protein is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing cytoskeletal interactions. This protein is involved in neuritogenesis and cholesterol transport and functions as an organizer of a number of other critical proteins involved in cell attachment, migration, and signaling. Bacterial and viral pathogens have been shown to attach to this protein on the host cell surface. Mutations in this gene are associated with congenital cataracts in human patients.

## Recommended Dilutions

**WB** 1:5000 - 1:40000

**Auto WB** 1:100 - 1:500

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

**IF/ICC** 1:200 - 1:2000

**IF-P** 1:200 - 1:2000

**IHC-P** 1:1000 - 1:4000

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

### Gene ID

7431

### Swiss Prot

P08670

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

CTRCT30; HEL113; Vimentin; VIM; vimentin; in

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Contact

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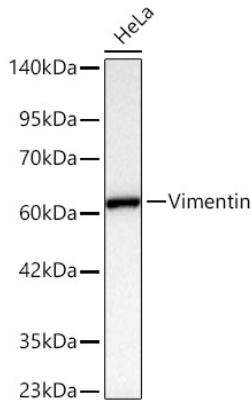
 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

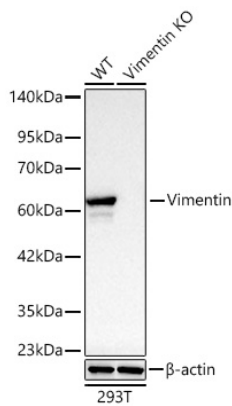
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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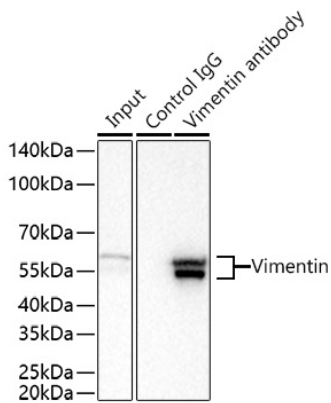
## Validation Data



Western blot analysis of lysates from HeLa cells using [KD Validated] Vimentin Rabbit mAb (A19607) at 1:5000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 0.5s.

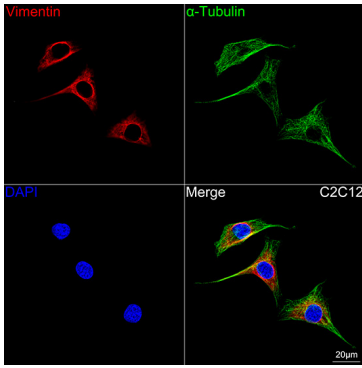


Western blot analysis of lysates from wild type (WT) and Vimentin knockout (KO) 293T cells using [KD Validated] Vimentin Rabbit mAb (A19607) at 1:5500 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 0.5s.

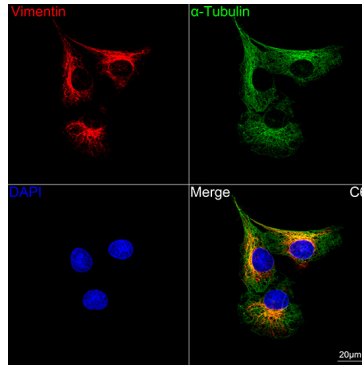


Immunoprecipitation of Vimentin from 300 µg extracts of Jurkat cells was performed using 0.5 µg of [KD Validated] Vimentin Rabbit mAb (A19607). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:10000.

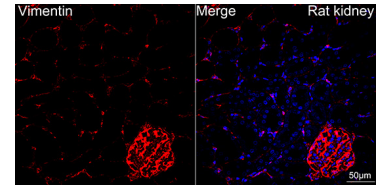
## Validation Data



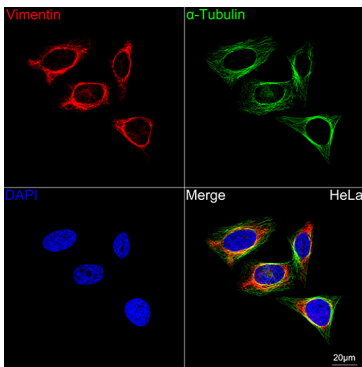
Confocal imaging of C2C12 cells using [KD Validated] Vimentin Rabbit mAb (A19607, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



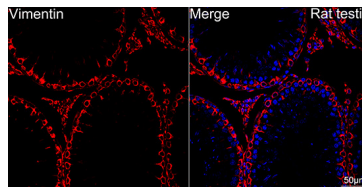
Confocal imaging of C6 cells using [KD Validated] Vimentin Rabbit mAb (A19607, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



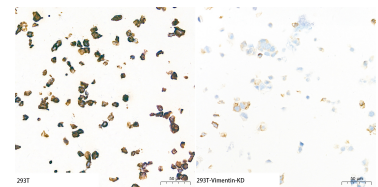
Confocal imaging of paraffin-embedded Rat kidney tissue using [KD Validated] Vimentin Rabbit mAb (A19607, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



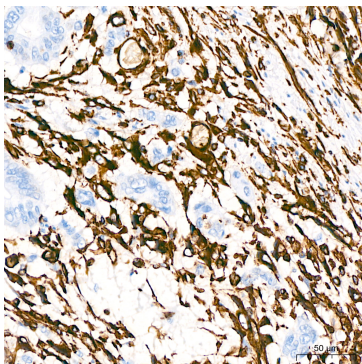
Confocal imaging of HeLa cells using [KD Validated] Vimentin Rabbit mAb (A19607, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



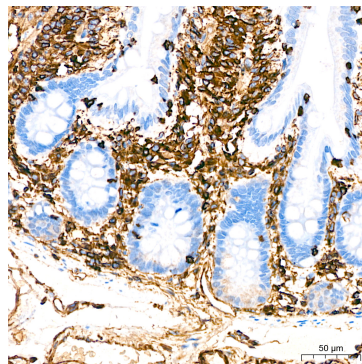
Confocal imaging of paraffin-embedded Rat testis tissue using [KD Validated] Vimentin Rabbit mAb (A19607, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



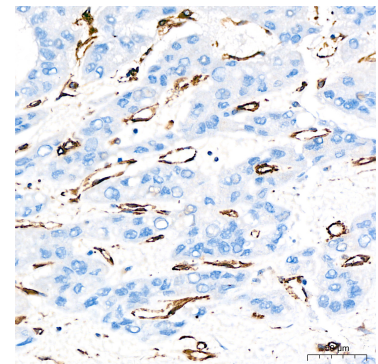
Immunohistochemistry analysis of paraffin-embedded 293T and 293T-VIM-KD cells using [KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue



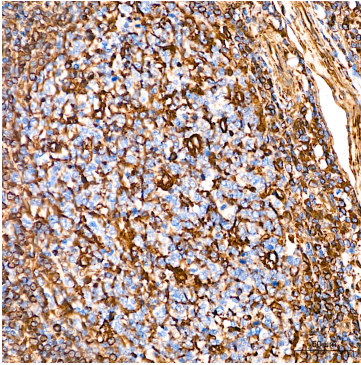
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using [KD Validated] Vimentin Rabbit mAb



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using [KD Validated] Vimentin Rabbit mAb

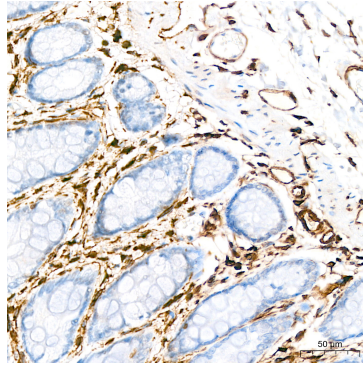
## Validation Data

using [KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



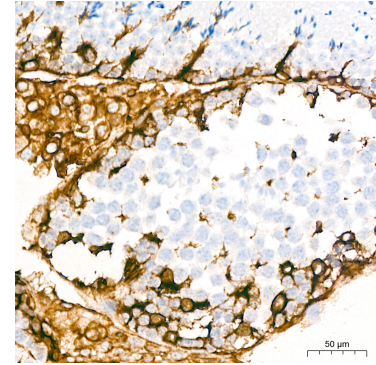
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

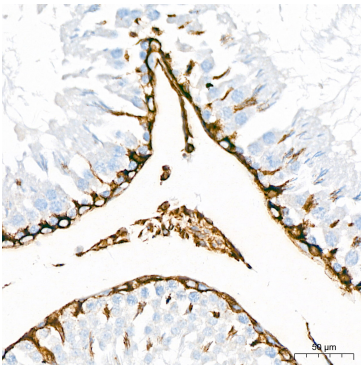


Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using [KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

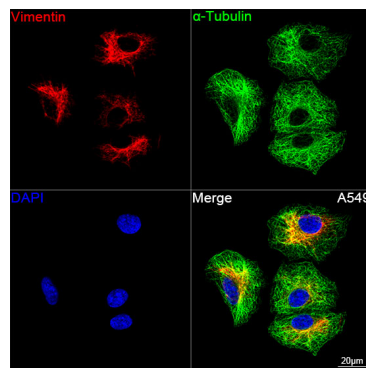
[KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



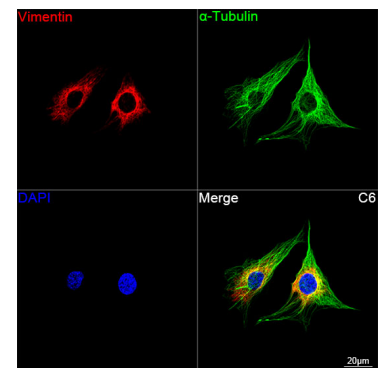
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using [KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



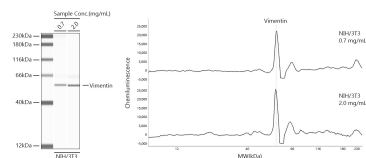
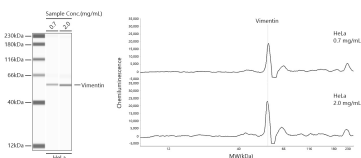
Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using [KD Validated] Vimentin Rabbit mAb (A19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Confocal imaging of A549 cells using [KD Validated] Vimentin Rabbit mAb (A19607, dilution 1:700) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells using [KD Validated] Vimentin Rabbit mAb (A19607, dilution 1:700) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



## Validation Data

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Simple Western™ analysis of lysates from HeLa cells using [KD Validated] Vimentin Rabbit mAb (A19607) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.

Simple Western™ analysis of lysates from NIH/3T3 cells using [KD Validated] Vimentin Rabbit mAb (A19607) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.