# [KO Validated] Vimentin Monoclonal Antibody

**CAB19607**

## Description

This [KO Validated] Vimentin Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

## Product Information

| | |
|---|---|
| **SKU:** | CAB19607 |
| **Contents:** | 20 µL, 100 µL<br>Bradford Reagent: 1 vial (2ml) |
| **Category:** | Monoclonal Antibody |
| **Synonyms:** | CTRCT30, HEL113, Vimentin, VIM, vimentin, in |
| **Clone:** | ARC0086 |
| **Applications:** | WB IHC-P IF/ICC IP ELISA IF-P |
| **Conjugation:** | Unconjugated |
| **Reactivity:** | Human, Mouse, Rat |

## Antibody Data

| | |
|---|---|
| **Gene ID:** | 7431 |
| **Uniprot:** | AB_2862696 |
| **Host Species:** | Rabbit |
| **Purification:** | Affinity purification |
| **Observed MW:** | 60kDa |
| **Calculated MW:** | 54kDa |

**Manufacturers Statement:** This final kit system is assembled and quality-released by Assay Genie Limited.

## Preparation & Storage

**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.
Store Bradford Reagent at Room Temperature for 1 Year.

**Positive Sample:** 293T, HeLa

**Recommended Dilutions:**

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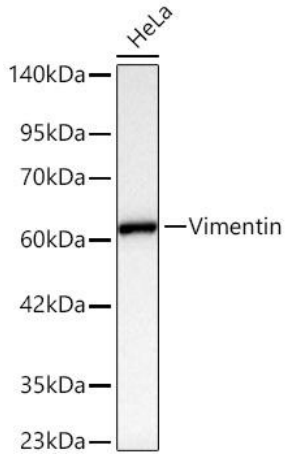
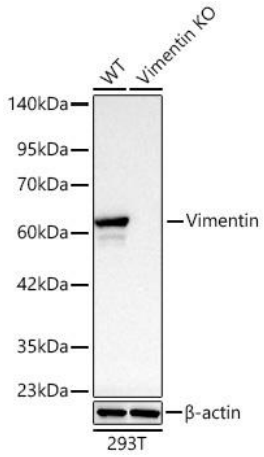
|---|---|
| **WB** | 1:5000 - 1:40000 |
| **IP** | 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells |
| **IF/ICC** | 1:200 - 1:2000 |
| **IF-P** | 1:200 - 1:2000 |
| **IHC-P** | 1:1000 - 1:4000 |
| **ELISA** | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

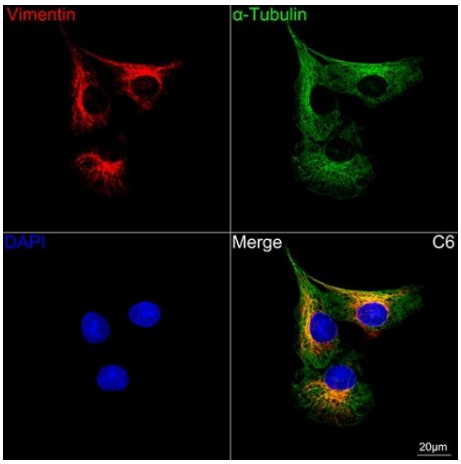
## Validation Data



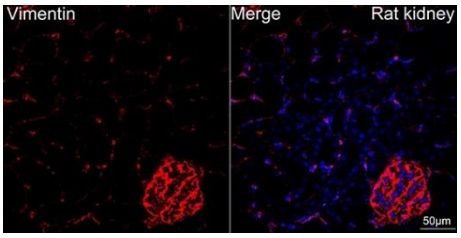

Western blot analysis of lysates from HeLa cells using [KD Validated] Vimentin Rabbit mAb (CAB19607) at 1:5000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 0.5s.



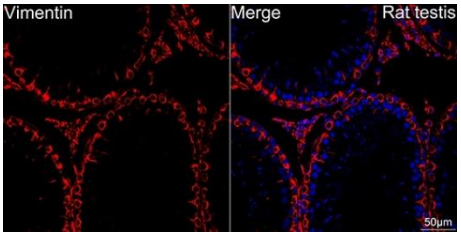

Western blot analysis of lysates from wild type (WT) and Vimentin knockout (KO) 293T cells using [KD Validated] Vimentin Rabbit mAb (CAB19607) at 1:5500 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 0.5s.



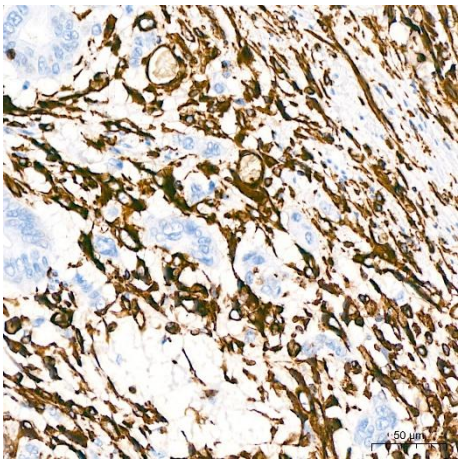

Confocal imaging of cells using [KD Validated] Vimentin Rabbit mAb (CAB19607,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



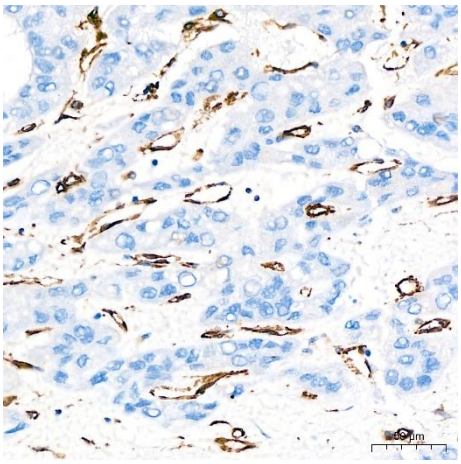

Confocal imaging of paraffin-embedded Rat kidney tissue using [KD Validated] Vimentin Rabbit mAb (CAB19607, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



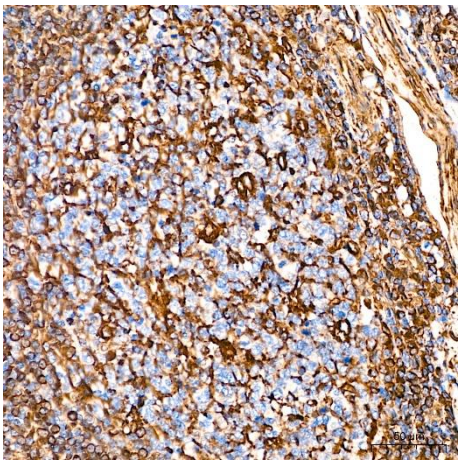

Confocal imaging of paraffin-embedded Rat testis tissue using [KD Validated] Vimentin Rabbit mAb (CAB19607, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



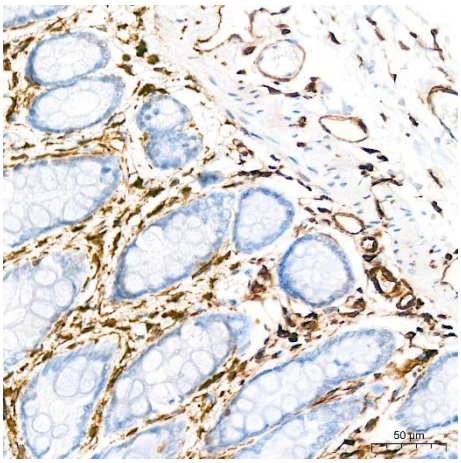
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KD Validated] Vimentin Rabbit mAb (CAB19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



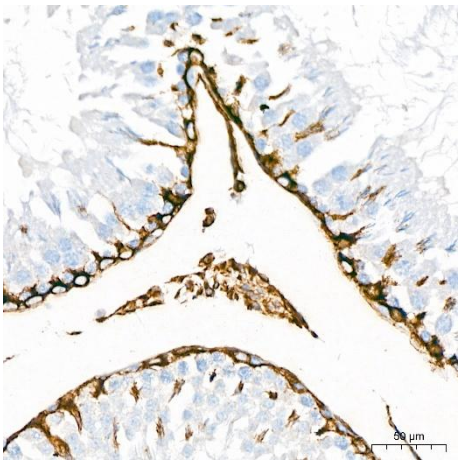
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using [KD Validated] Vimentin Rabbit mAb (CAB19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



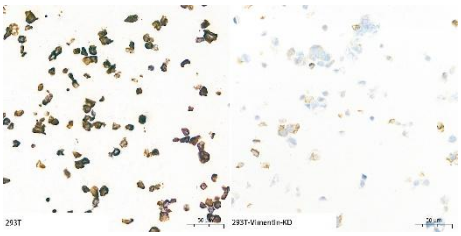
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KD Validated] Vimentin Rabbit mAb (CAB19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



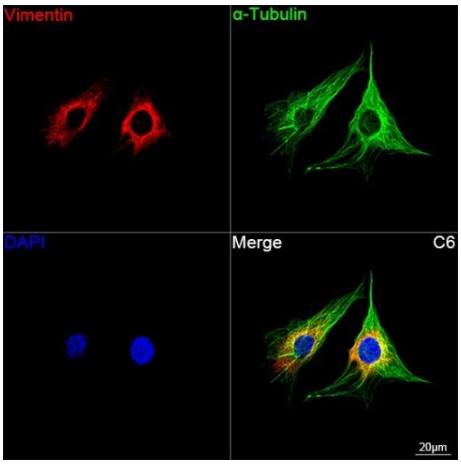

Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using [KD Validated] Vimentin Rabbit mAb (CAB19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



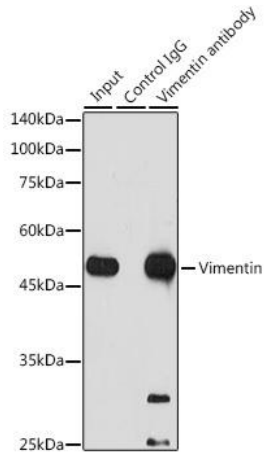

Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using [KD Validated] Vimentin Rabbit mAb (CAB19607) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.




Immunohistochemistry analysis of paraffin-embedded 293T and 293T-VIM-KD cells using [KD Validated] Vimentin Rabbit mAb (CAB19607) 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.




Confocal imaging of cells using [KD Validated] Vimentin Rabbit mAb (CAB19607, dilution 1:700) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.




Immunoprecipitation analysis of 300 µg extracts of Jurkat cells using 3 µg [KD Validated] Vimentin Rabbit mAb (CAB19607). Western blot was performed from the immunoprecipitate using [KD Validated] Vimentin Rabbit mAb (CAB19607) at a dilution of 1:1000.