Data Sheet (Cat.No.TMAB-01963)

Anti-Vimentin Antibody (3C354)

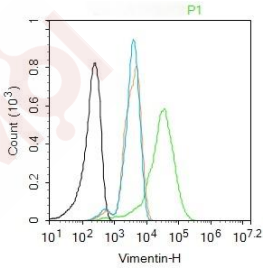
Product Details

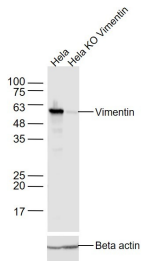
Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 53 kDa. Actual: 53 kDa.
Clone:	3C354
Purification:	Protein G purified

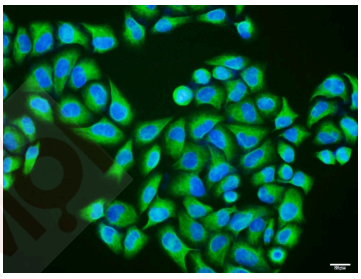
Applications

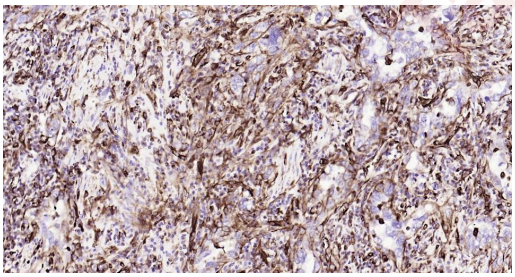
Verified Activity:	1. Blank control: Hela. Primary Antibody (green line): Mouse Anti-Vimentin antibody (TMAB-01963) Dilution: 1 μg/Test; Secondary Antibody: Goat anti-Mouse IgG-FITC Dilution: 0.5 μg/Test. Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. 2. Sample: Hela (Human) Cell Lysate at 30 μg Hela KO Vimentin (Human) Cell Lysate at 30 μg Primary: Anti-Vimentin (TMAB-01963) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 53 kDa Observed band size: 58 kDa 3. Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (Vimentin) monoclonal Antibody, Unconjugated (TMAB-01963) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus. 4. Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining. 5. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining. 6. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining. 7. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in

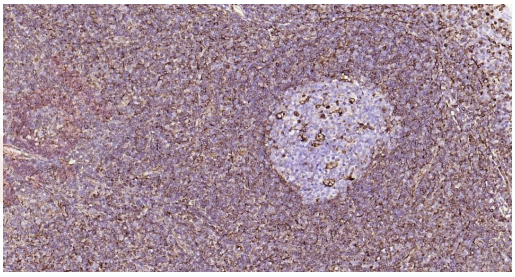
sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.
8. Paraformaldehyde-fixed, paraffin embedded Human Uterus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.
9. Paraformaldehyde-fixed, paraffin embedded Uterine body cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.
10. 4% Paraformaldehyde-fixed Hela (left) cell and Vimentin knockout Hela (right) cell; Triton X-100 at RT for 20 min; Antibody incubation with (Vimentin) monoclonal Antibody, unconjugated (TMAB-01963) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nucleus.
11. 25 μg total protein per Lane of various lysates probed with Vimentin monoclonal antibody, unconjugated (TMAB-01963) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.
12. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green), DAPI (blue) was used to stain the cell nucleus.
13. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (TMAB-01963) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green), DAPI (blue) was used to stain the cell nucleus.

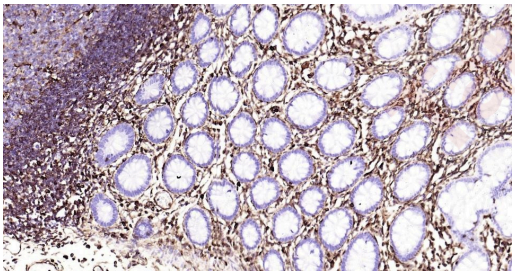


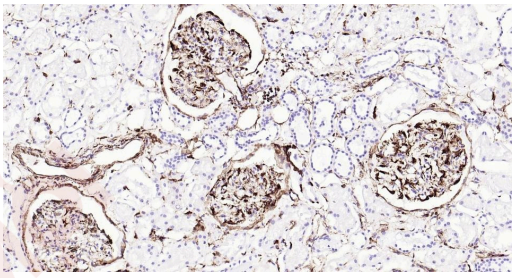


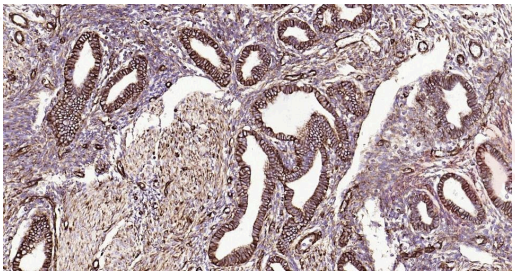


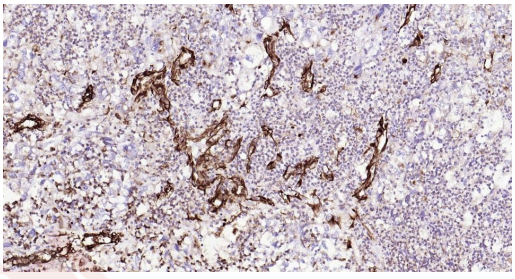


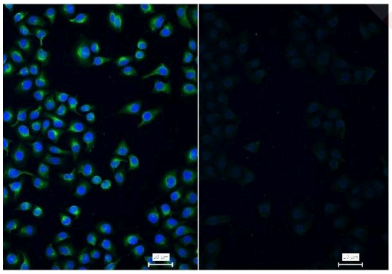


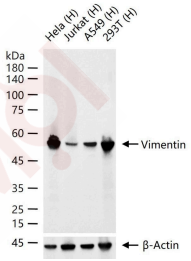


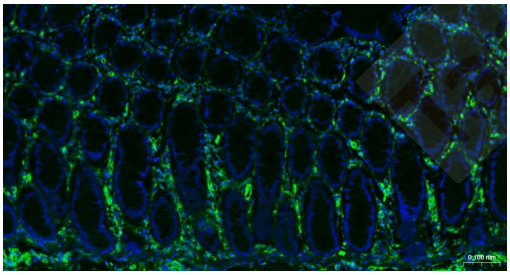


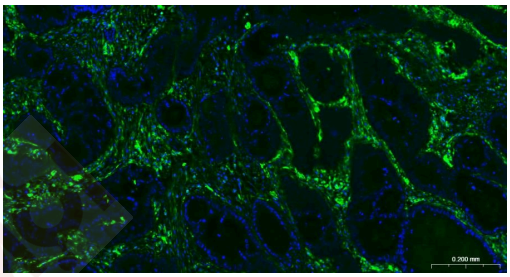












Application:	FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended	FCM=1 μg/Test; ICC/IF=1:100-500; IF=1:200-1000; IHC-Fr=1:200-1000; IHC-P=1:200-1000; WB=1:1000-10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: human Vimentin Protein
Antigen Species:	Human
Gene ID:	7431
Uniprot ID:	P08670
Synonyms:	vimentin;CTRCT30;HEL113
Biology Area:	Intracellular,Endoderm,Vimentin,vimentin,Neuroregeneration,Neurogenesis,Neural Stem Cell marker,Ectoderm,Tumor biomarkers

Research Background

This gene encodes a member of the intermediate filament family. Intermediate filamentents, 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]

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481