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## Vimentin Mouse mAb

Catalog Number: bsm-33170M

Target Protein: Vimentin

Concentration: 1mg/ml

Form: Size : 50ul/100ul/200ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 3B7

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test), ICC/IF (1:100)

Reactivity: Human

Predicted MW: 53 kDa

Entrez Gene: 7431

Swiss Prot: P08670

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/200ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

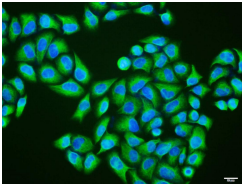
Size : 200ug (PBS only)

0.01M PBS

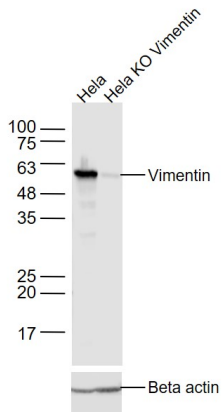
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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]

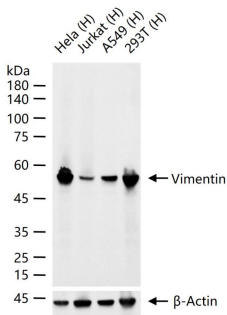
## VALIDATION IMAGES



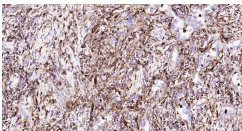
HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) monoclonal Antibody, Unconjugated (bsm-33170M) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



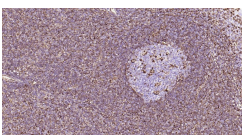
Sample: HeLa(Human) Cell Lysate at 30 ug HeLa KO Vimentin (Human) Cell Lysate at 30 ug Primary: Anti-Vimentin (bsm-33170M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 53 kD Observed band size: 58 kD



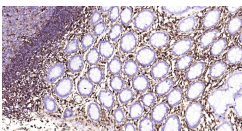
25 ug total protein per lane of various lysates (see on figure) probed with Vimentin monoclonal antibody, unconjugated (bsm-33170M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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(bsm-33170M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



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(bsm-33170M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



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(bsm-33170M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=12.4] Jianan Zhao. et al. DNMT1 mediates the disturbed flow-induced endothelial to mesenchymal transition through disrupting  $\beta$ -alanine and carnosine homeostasis. THERANOSTICS. 2023; 13(13): 4392–4411 WB ; Human . 37649604

[IF=8.755] Sijie Wang. et al. PFKFB4 facilitates palbociclib resistance in oestrogen receptor-positive breast cancer by enhancing stemness. CELL PROLIFERAT. 2022 Sep;;e13337 WB ; Human . 36127291

[IF=4.5] Ying Sun. et al. Cinobufagin inhibits M2-like tumor-associated macrophage polarization to attenuate the invasion and migration of lung cancer cells. INT J ONCOL. 2024 Nov;65(5):1-17 WB ; Human . 39301639

[IF=5.201] Juan-Juan Zhu. et al. VAMP3 and SNAP23 as Potential Targets for Preventing the Disturbed Flow-Accelerated Thrombus Formation. Front Cell Dev Biol. 2020; 8: 576826 WB,IF,IHC ; Human . 33224946

[IF=3.6] Zheng Bo. et al. Propranolol inhibits EMT and metastasis in breast cancer through miR-499-5p-mediated Sox6. J CANCER RES CLIN. 2024 Feb;150(2):1-13 WB ; Mouse . 38294713