bsm-33170M **[Primary Antibody]**

Vimentin Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 3B7
GeneID: 7431
SWISS: P08670
Target: Vimentin
Purification: affinity purified by Protein G
Concentration: 1mg/ml
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]

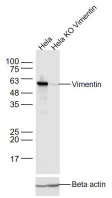
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

Reactivity: Human

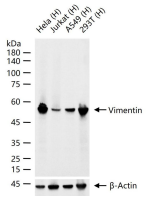
Predicted MW.: 53 kDa

Subcellular Location: Cytoplasm

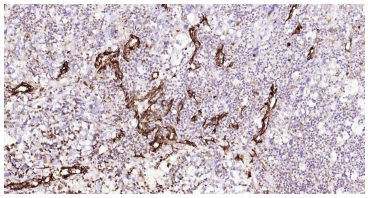
VALIDATION IMAGES



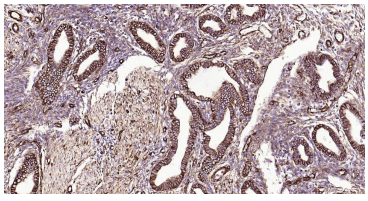
Sample: Hela(Human) Cell Lysate at 30 ug Hela KO Vimentin (Human) Cell Lysate at 30 ug Primary: Anti- Vimentin (bsm-33170M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 53 kD Observed band size: 58 kD



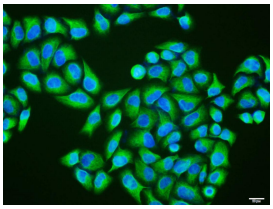
25 ug total protein per lane of various lysates (see on figure) probed with Vimentin monoclonal antibody, unconjugated (bsm-33170M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



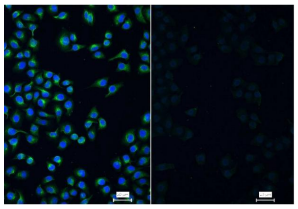
Paraformaldehyde-fixed, paraffin embedded Uterine body cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated(bsm-33170M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Uterus; 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

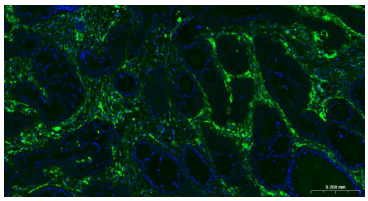


Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) monoclonal Antibody, Unconjugated (bsm-33170M) 1:100, 90 minutes at 37°C;



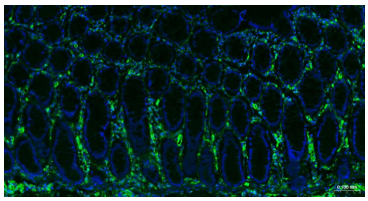
4% Paraformaldehyde-fixed Hela (left) cell and Vimentin knockout Hela(right) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Vimentin) monoclonal Antibody, unconjugated (bsm-33170M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody

SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



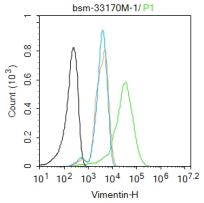
Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Monoclonal Antibody, Unconjugated (bsm-33170M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

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.



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 conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

(green, bs-60296G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control:Hela. Primary Antibody (green line): Mouse Anti-Vimentin antibody (bsm-33170M) Dilution: 1ug/Test; Secondary Antibody : Goat anti-Mouse IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min 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. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=12.4]** Jianan Zhao. et al. DNMT1 mediates the disturbed flow-induced endothelial to mesenchymal transition through disrupting β-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=4.3]** Jianwei Dong. et al. Efficient detection of heterogeneous CTCs using folate modified magnetic beads combined with microfluidic spatial confinement signal amplification. CHEM ENG SCI. 2025 Jun;:121983 ;. 10.1016/j.ces.2025.121983