bs-8533R **[Primary Antibody]**

Vimentin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7431 **SWISS:** P08670

Target: Vimentin

Immunogen: KLH conjugated synthetic peptide derived from human Vimentin: 371-466/466.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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

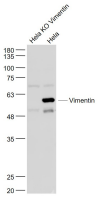
Applications: **WB** (1:1000-5000)
IHC-P (1:200-1000)
IHC-F (1:200-1000)
IF (1:200-1000)
Flow-Cyt (1μg/Test)
ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Dog, Horse)

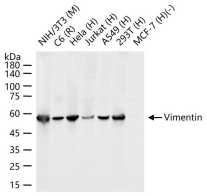
Predicted MW.: 51 kDa

Subcellular Location: Cytoplasm

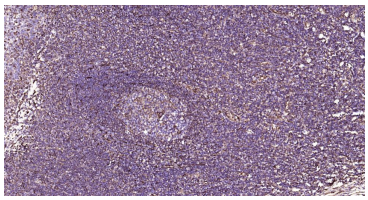
VALIDATION IMAGES



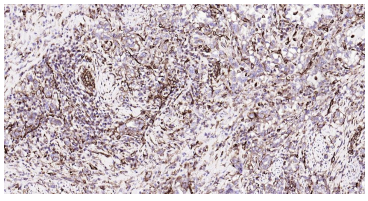
Sample: Hela KO Vimentin (Human) Cell Lysate at 30 ug Hela(Human) Cell Lysate at 30 ug Primary: Anti- Vimentin (bs-8533R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 57 kD



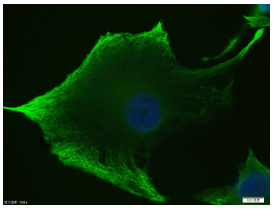
25 ug total protein per lane of various lysates (see on figure) probed with Vimentin polyclonal antibody, unconjugated (bs-8533R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



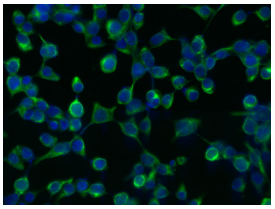
Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Polyclonal Antibody, Unconjugated (bs-8533R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Vimentin Polyclonal Antibody, Unconjugated (bs-8533R) at 1:200 overnight at 4°C, followed by



Tissue/cell: U-87MG 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) Polyclonal Antibody, Unconjugated (bs-8533R)antibody (bs-0295G-

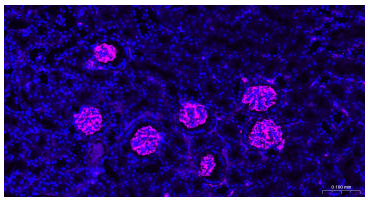


Tissue/cell: 293T cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Vimentin) Polyclonal Antibody, Unconjugated (bs-8533R) 1:200, 2 hours at 37°C;

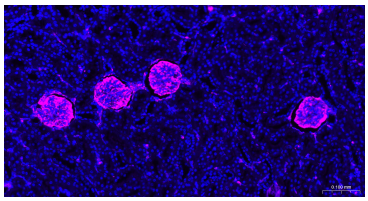
conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

FITC) at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

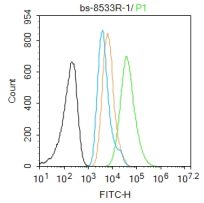
followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded Mouse Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Vimentin Polyclonal Antibody, Unconjugated (bs-8533R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Rose Red, bs-40295G-BF647), DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Vimentin Polyclonal Antibody, Unconjugated (bs-8533R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Rose Red, bs-40295G-BF647), DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control:A549. Primary Antibody (green line): Rabbit Anti-Vimentin antibody (bs-8533R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1µg /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=15.1]** Jingxin Li. et al. A Mammalian Conserved Circular RNA CircLARP1B Regulates Hepatocellular Carcinoma Metastasis and Lipid Metabolism. Advanced Science. 2023 Nov;:2305902 IHC ;Mouse. 37953462
- **[IF=9]** Fu Rongrong. et al. SOAT1 regulates cholesterol metabolism to induce EMT in hepatocellular carcinoma. CELL DEATH DIS. 2024 May;15(5):1-14 WB,IF,IHC ;Mouse,Human. 38724499
- **[IF=5.572]** Liu H et al. Anti-tubulin agent vinorelbine inhibits metastasis of cancer cells by regulating epithelial-mesenchymal transition. Eur J Med Chem. 2020 Aug 15;200:112332. WB ;Human. 32473523
- **[IF=6.196]** Cheng He. et al. Crosstalk of renal cell carcinoma cells and tumor-associated macrophages aggravates tumor progression by modulating muscleblind-like protein 2/B-cell lymphoma 2/beclin 1-mediated autophagy. CYTOTHERAPY. 2022 Oct;: WB ;Human. 36244911
- **[IF=5.714]** Li D et al. Oxygenated Polycyclic aromatic hydrocarbons (Oxy-PAHs) facilitate lung cancer metastasis by epigenetically regulating the epithelial-to-mesenchymal transition (EMT). Environ Pollut. 2019 Sep 17;255(Pt 2):113261. WB ;Human. 31580991