

Mouse Vimentin Monoclonal Antibody | anti-VIM antibody

Vimentin Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71725	Mouse	Human, Rat, Mouse, Chicken	Immunocytochemistry, ELISA, Western Blot

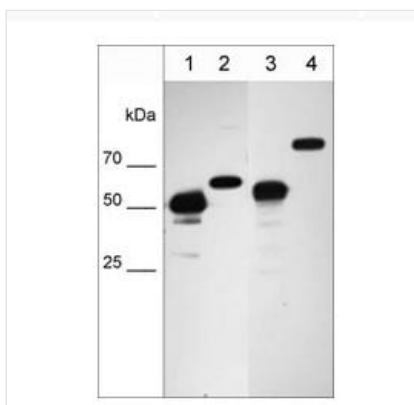
PRODUCT SYNONYMS

Vimentin; Monoclonal Antibody; Vimentin Antibody; anti-VIM antibody

PRODUCT SPECIFICATIONS

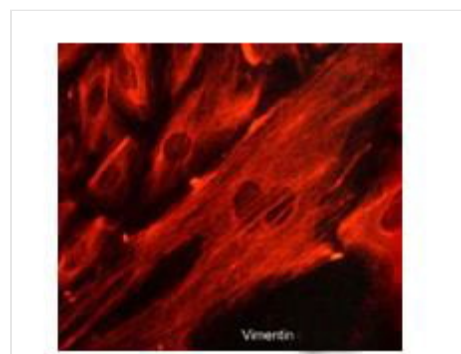
Host	Mouse
Reactivity	Human, Rat, Mouse, Chicken
Clonality	Monoclonal
Isotype	IgG1
Clone Number	V9
Specificity	The antibody detects a 58kDa* protein corresponding to the molecular mass of vimentin on SDS-PAGE immunoblots of human fibroblasts (HS-68). In immunocytochemistry, the antibody detects intermediate filaments in rat smooth muscle cells (A7r5).
Purity/Purification	Protein A chromatography
Form/Format	Mouse monoclonal antibody purified with protein A chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-VIM antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone (V9) was generated from full length vimentin purified from porcine eye lens. The antibody reacts with human, pig, chicken, rat, and mouse vimentins.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



WB (Western Blot)

Western blot image of cell structure markers in NCI-H1915 lung carcinoma cells. The blot was probed with anti-Vimentin intermediate filament protein VM4341 (lane 1), anti-Nucleoporin p62nM4361 (lane 2), anti-Hsp60 mitochondrial protein HM4381 (lane 3), and anti-Calnexin endoplasmic reticulum protein CM4371 (lane 4).



ICC (Immunocytochemistry)

Immunocytochemical labeling of Vimentin in paraformaldehyde fixed and NP-40 permeabilized A7r5 cells. The cells were labeled with a mouse monoclonal antibody to Vimentin (VM4341), then the antibody was detected using Goat anti-Mouse secondary antibody conjugated to DyLight 594.

ADDITIONAL INFORMATION

Related Product Information for anti-VIM antibody	Intermediate filaments (IF) are important components of the cytoskeleton and nuclear envelope. IF protein family members are encoded by 70 genes that have diverse expression patterns during development and tissue-specific functions. For example, the keratins form IFs in epithelial cells, while vimentin forms filaments in mesenchymal, endothelial, and hematopoietic cells. Neurofilament triplet proteins and internexins form IFs in neurons, while desmin, synemin and syncoilin form the extra-sarcomeric cytoskeleton of myoblasts. The nuclear IF system consists of lamin family proteins organized in a meshwork-like lamina around the nucleus. Vimentin is a 58kDa IF protein that forms 10nM filaments that are important for mechanical stability, motility, and adhesion in various cell types. Vimentin activity is regulated by proteolysis and phosphorylation. Rho-kinases can phosphorylate vimentin leading to destabilization of intermediate filaments, while Akt phosphorylation of Ser-39 in vimentin reduces proteolysis of vimentin and promotes cancer cell motility and invasion.
References	Hermann, H. et al. (2009) J Clin. Invest. 119(7):1772. Sin, W.C. et al (1998) Mol Cell Biol. 18(11):6325. Goto, H. et al. (1998) J Biol Chem. 273(19):11728.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62414289
NCBI GeneID	7431
NCBI Accession #	NP_003371.2
NCBI GenBank Nucleotide #	NM_003380.3
UniProt Accession #	P08670; Q15867; Q15868; Q15869; Q548L2; Q6LER9; Q8N850; Q96ML2; Q9NTM3; B0YJC2; D3DRU4
Molecular Weight	53,652 Da
NCBI Official Full Name	vimentin
NCBI Official Synonym Full Names	vimentin
NCBI Official Symbol	VIM
NCBI Protein Information	vimentin
UniProt Protein Name	Vimentin
UniProt Gene Name	VIM
UniProt Entry Name	VIME_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/vimentin-antibody-clone-v9-immunocytochemistry-western-blot-elisa/71725>