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PRODUCT DATASHEET

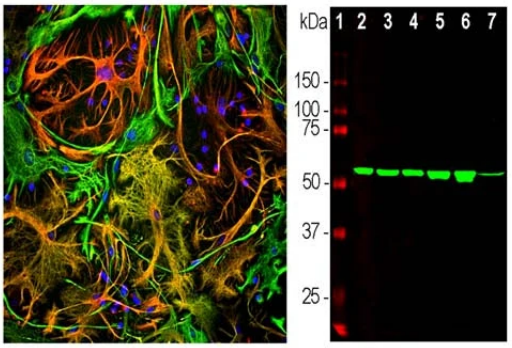
Anti-Vimentin Antibody

Product Details

Available Variants	100 µg (SKU:M-2121-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	2A52
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, IHC, WB
Dilution Ranges	WB: 1:5000-1:10000 IHC: 1:100-1:500 ICC: 1:100-1:500
Species Reactivity	Human, Rat
Immunogen	The antibody has been made against the full length recombinant human vimentin protein expressed in and purified from E Coli. The antibody binds to a region in the C-terminal â€œtailâ€ region of vimentin included in the peptide SRISLPLPNFSSLNLRE.
Specificity	Human. Species cross-reactivity includes rat.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.

UniProt ID	P08670 UniProt Summary: Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. Plays a role in cell directional movement, orientation, cell sheet organization and Golgi complex polarization at the cell migration front. Protects SCRIB from proteasomal degradation and facilitates its localization to intermediate filaments in a cell contact-mediated manner. May promote axon outgrowth and motor fiber repair via DSP-mediated recruitment to outgrowth tips.
Country of Origin	United States
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	7431

Product Images



Left: Visualization of vimentin expression in rat cortical neuron-glial cell culture by **Immunofluorescent analysis**. Section was stained with mouse anti-Vimentin antibody, M-2121-100, (green, 1:5,000) and costained with rabbit polyclonal antibody to GFAP, R-1374-50, (red, 1:5,000). DAPI staining of nuclear DNA (blue). Vimentin is contained in fibroblastic, microglial and developing astrocytic cells which appear green. Maruting astrocytic cells appear red or yellow as they contain varying amounts of GFAP and vimentin.**Right:** Analysis by **western blot** of whole brain tissue lysates with M-2121-100 (green, 1:5,000) with band at approx. 50kDa. Lane 1: protein standard (red); Lane 2: HEK293; Lane 3: HeLa; Lane 4: SH-SY5Y; Lane 5: COS-1; Lane 6: C6; Lane 7: rat brain.