

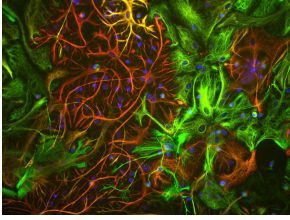
Anti-Vimentin Antibody [2D1] (A85424)

Specifications:

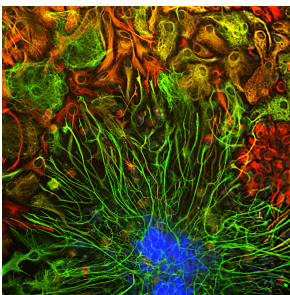
Name:	Anti-Vimentin Antibody [2D1]
Description:	Mouse monoclonal (2D1) antibody to Vimentin.
Specificity:	The epitope for this antibody is located in the C-terminal "tail" region of Vimentin, included in the peptide SRISLPLPNFSSLNREL.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:10,000, ICC/IF: 1:1,000, IHC: 1:1,000
Reactivity:	Human, Rat
Cross Reactivity:	This antibody does not cross-react with Mouse.
Immunogen:	Recombinant full-length human Vimentin, expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	2D1
Isotype:	IgG2a
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	50 kDa
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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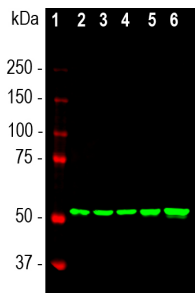
Images:



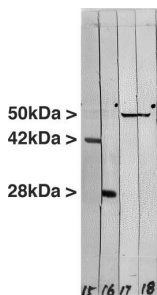
View of mixed neuron/glia cultures stained with Anti-Vimentin Antibody (green) and Anti-GFAP Antibody (A85419 | red). Vimentin is expressed alone in fibroblastic and endothelial cells, which are the flattened cells in the middle of the image which appear green. Astrocytes may express primarily GFAP, or GFAP and vimentin, and so appear red (GFAP only) or golden yellow (GFAP and Vimentin). In cells which express both GFAP and vimentin, the two proteins assemble to produce heteropolymer filaments.



Immunofluorescent analysis of cortical neuron-glia cell cultures from E20 rat stained with Anti-Vimentin Antibody [2D1] (A85424), at a dilution of 1:2,000 in red, and co-stained with Anti-GFAP Antibody (A85307), at a dilution of 1:5,000, in green. The blue is DAPI staining of nuclear DNA. Fibroblastic and other developing cells express only vimentin and appear red. Astrocytes that express GFAP only are green, while those that express both GFAP and vimentin appear golden yellow.



Western blot analysis of different cell lysates using Anti-Vimentin Antibody [2D1] (A85424), at a dilution of 1:10,000, in green. The lanes contain samples of: [1] Protein standards, in red, [2] HEK293 cells, [3] HeLa cells, [4] SH-SY5Y cells, [5] COS-1 cells, and [6] C6 cells. The band at about 50 kDa corresponds to the vimentin protein.



Western blot of crude extract of the human carcinoma HeLa cell line. Lane 18 was probed with Anti-Vimentin Antibody. Note the strong clean band at the expected molecular weight of 50 kDa. Lane 17 was probed with Anti-Vimentin Antibody (A85423). Lane 15 was probed with Anti-Actin Antibody (A85388) - giving an SDS-PAGE molecular weight of 42 kDa. Lane 16 was probed with Anti-14-3-3 eta Antibody (A85361) - which has an SDS-PAGE molecular weight of 28 kDa.