

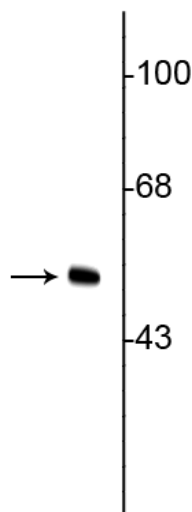
Product Datasheet

Anti-Vimentin

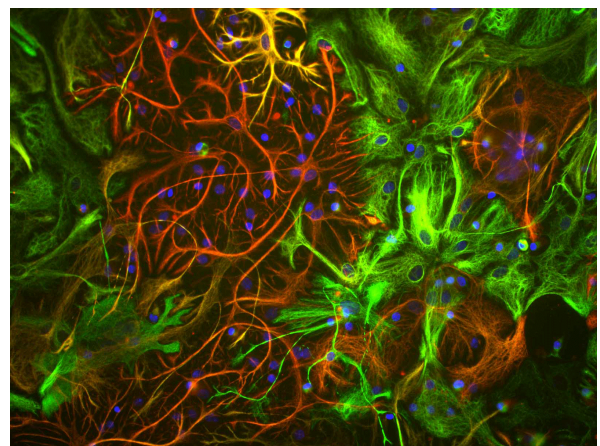
Overview

Catalog #	2107-VIM
Host Species	Mouse Monoclonal
Isotype	IgG _{2a}
Clone	2D1
Format	Protein G Purified
Applications	WB 1:1000 IHC 1:500-1:1000 ICC 1:500-1:2000
Species Tested	Human, Mouse, Rat
Expected Reactivity	Bovine, Canine, Chicken, Drosophila, Feline, Finch, Fish, Goat, Guinea Pig, Hamster, Horse, Lizard, Non-Human Primate, Rabbit, Sheep, Vole, <i>Xenopus</i> , Zebrafish
Immunogen	Recombinant human vimentin purified from <i>E. coli</i> .
Molecular Weight	50 kDa
Cite this Antibody	PhosphoSolutions Cat# 2107-VIM, RRID:AB_2492284

Images



Western blot of HeLa cell lysate showing specific immunolabeling of the ~50 kDa vimentin protein.



Mixed neuron/glia cultures stained with anti-vimentin (green, 1:500) and rabbit anti-GFAP antibody (cat #620-GFAP, red, 1:1000). The blue stains nuclear DNA. 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.

Details

Target Description	Vimentin is the major protein subunit of the 10nm or intermediate filaments (IFs) found in many kinds of mesenchymal and epithelial cells as well as developing neuronal and astrocytic precursor cells in the CNS. Vimentin is thought to be critically involved in lymphocyte adhesion and transmigration (Nieminen M et al. 2006). Copolymers are frequently formed between vimentin and other IFs, such as GFAP (in many kinds of astrocytes), desmin (in muscle cells) and neurofilament proteins (in developing neurons). Antibodies to vimentin are useful in studies of stem cells and generally to reveal the filamentous cytoskeleton. Recent studies suggest that vimentin affects prostate cancer cells motility and invasiveness (Zhao et al. 2008).
Specificity	Specific for endogenous levels of the ~50 kDa vimentin protein.
Production/Purification	Protein G purified culture supernatant.
Quality Control	Western blots performed on each lot.
Buffer	PBS + 10 mM NaN ₃ .
Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 µL/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles.
Stability	After date of receipt, stable for at least 1 year at -20°C.

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