

## Product datasheet for **AM32993PU-N**

### Vimentin (VIM) Mouse Monoclonal Antibody [Clone ID: 2D1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2D1
Applications:	IF, WB
Recommended Dilution:	<b>Western Blot:</b> 1/1000. <b>Immunofluorescence:</b> 1/500.
Reactivity:	Bovine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant human vimentin purified from E. coli.
Specificity:	Specific for the ~50kDa Vimentin protein.
Formulation:	PBS State: Aff - Purified State: Liquid purified IgG fraction Preservative: 10mM Sodium Azide
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	vimentin
Database Link:	<a href="#">Entrez Gene 7431 Human</a> <a href="#">P08670</a>



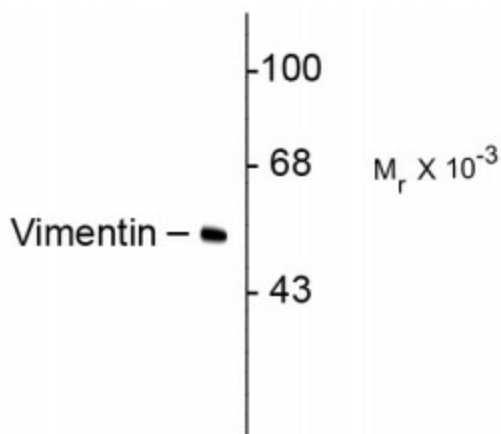
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**Background:**

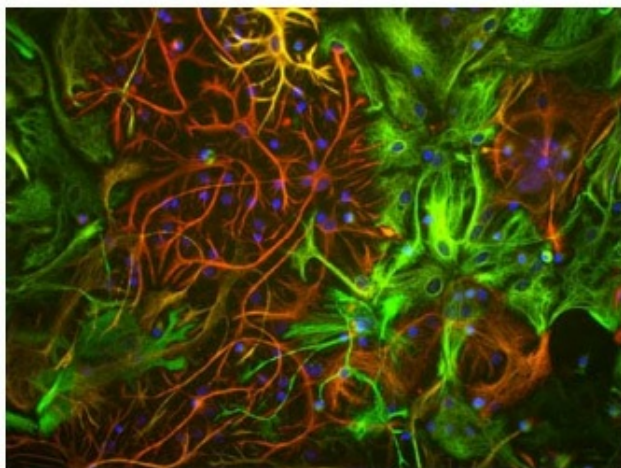
Vimentin is the major protein subunit of the 10nm or intermediate filaments (IFs) found in many kinds of mesenchymal and epithelial cells as well as developing neuronal and astrocytic precursor cells in the CNS. Vimentin is thought to be critically involved in lymphocyte adhesion and transmigration (Niemenen 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).

**Synonyms:**

VIM

**Product images:**


Western blot of HeLa cells showing specific immunolabeling of the ~50k Vimentin protein.



Mixed neuron/glia cultures stained with anti-Vimentin (green) and Rabbit anti-GFAP antibody (Cat.-No [AP08673SU-N]) (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.