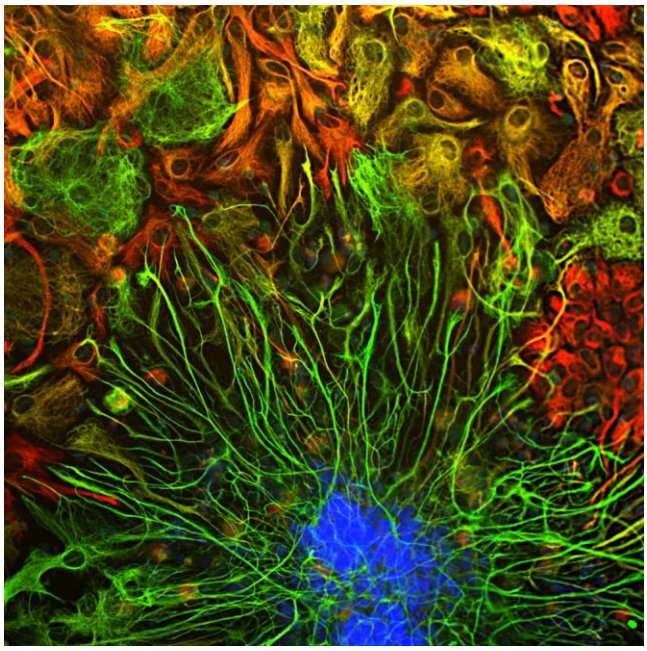
NEUROMICS

Vimentin Data Sheet

Catalog Number:	MO22115	**Host:**	Mouse
Product Type:	Mouse Monoclonal IgG	**Species Reactivity:**	Human and Rat
Immunogen Sequence:	Full length recombinant human vimentin protein expressed in and purified from *E. coli*.	**Format:**	Purified liquid antibody in 50% PBS, 50% glycerol plus 5mM of Sodium Azide. Concentration: 1mg/ml.
Applications:	Immunofluorescent: 1:1,000 Immunocytochemistry: 1:1,000 Immunohistochemistry: 1:1,000 Western Blot: 1:10,000		
	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes



Description/Data:
Vimentin is a protein which assembles to produce 10mm or intermediate filaments, which are major components of the cellular cytoskeleton. This protein is expressed in microglia, developing astrocytes, developing neurons, fibroblasts and endothelial cells in the developing nervous system. Levels of vimentin generally are reduced as development proceeds and in adult animals vimentin is mostly found in mesenchymal tissues. Antibodies to vimentin are useful in studies of stem cells and generally to reveal the filamentous cytoskeleton. The immunogen used to generate our antibody was recombinant human vimentin expressed in and purified from E. coli.

Image: Immunofluorescent analysis of cortical neuron-glial cell cultures from E20 rat stained with mouse mAb to vimentin dilution 1:2,000 in red, and costained with chicken pAb to glial fibrillary acidic protein (GFAP) dilution 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.

FOR RESEARCH USE ONLY

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Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail: pshuster@neuromics.com