

Mouse Vimentin Monoclonal Antibody | anti-VIM antibody

Mouse anti Vimentin, conjugated with HRP

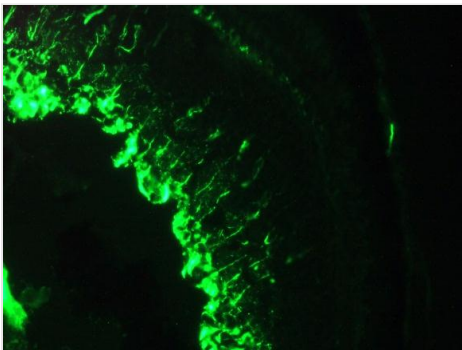
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14566	Mouse	Canine, Chicken, Caprine, Hamster, Human, Monkey, Mouse, Rat, Swine, Zebrafish	Flow Cytometry, Functional Assay, Immunocytochemistry, Immunohistochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

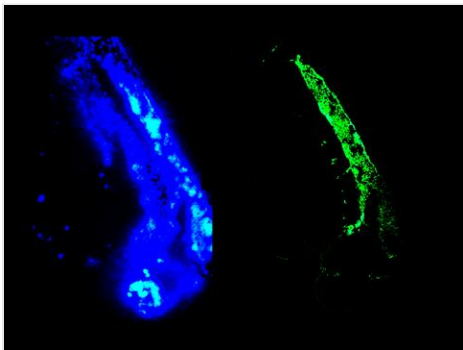
Vimentin; Monoclonal Antibody; Mouse anti Vimentin; conjugated with HRP; anti-VIM antibody

PRODUCT SPECIFICATIONS

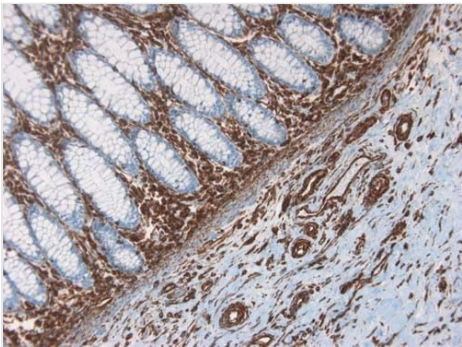
Host	Mouse
Reactivity	Canine, Chicken, Caprine, Hamster, Human, Monkey, Mouse, Rat, Swine, Zebrafish
Clonality	Monoclonal
Isotype	IgG1
Clone Number	RV202
Specificity	RV202-HRP reacts exclusively with vimentin, which is expressed in mesenchymal cells and mesenchymal derived tumors e.g. lymphoma, sarcoma and melanoma. RV202-HRP is suitable for immunoblotting, immunocytochemistry on cell cultures and cytopins, as well as immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration; recommended range is 1:10.
Form/Format	Each vial contains 1ml HRP-conjugated vimentin monoclonal antibody in PBS containing 0,1% BSA, 0.09% sodium azide. Approximately 100 tests.
Applicable Applications for anti-VIM antibody	FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	RV202 is suitable for immunoblotting, immunocytochemistry, immunohistochemistry on frozen and paraffin-embedded tissues and flow cytometry. Optimal antibody dilution should be determined by titration; recommended range is 1:100 - 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.
Conjugation	HRP
Source Note	RV202 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0-Ag14 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with a cytoskeletal vimentin extract of calf lens.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.



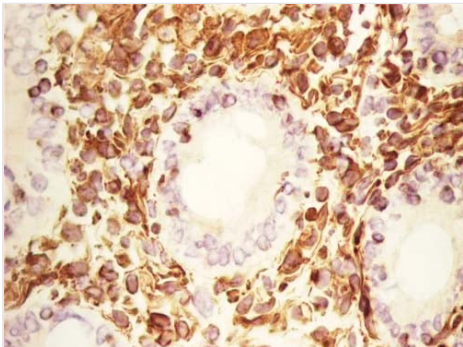
Application Data
Figure 6: Immunofluorescence staining of a 1 month old zebrafish embryo



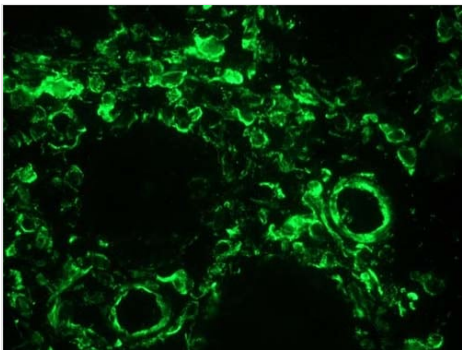
Application Data
Figure 5: Immunofluorescence staining of the developing neural tube in a 2 days old zebrafish embryo. Left panel: DAPI-staining of cell nuclei, providing an overview of the tissue section used for immunostaining



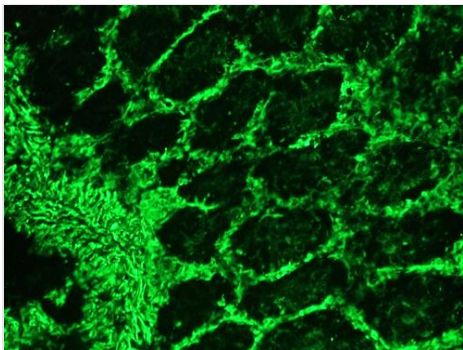
Application Data
Figure 4: Immunohistochemistry on paraffin section of human colon



Application Data
Figure 3: MUB1900L2: Frozen section of swine colon immunostained with RV202-HRP (1:200)



Application Data
Figure 2: MUB1900L1: Frozen section of swine colon immunostained with RV202-FITC (1:200)



Application Data
Figure 1: MUB1900P: Immunohistochemistry on frozen section of swine colon showing positive staining in connective tissue cells and no reactivity in epithelial cells

ADDITIONAL INFORMATION

Related Product Information for anti-VIM antibody	Vimentin (57 kDa) is the intermediate filament protein (IFP) of mesenchymal cells. This IFP however often deviates from the tissue-specific and developmentally regulated pattern of expression. Besides its typical expression in most cultured cells, vimentin is also expressed together with several other IFPs during early stages of development. As differentiation proceeds, vimentin is exchanged for the tissue-specific intermediate filament type. Also in cancers, vimentin is often expressed in addition to the tissue-specific IFP.
Product Categories/Family for anti-VIM antibody	Cytoskeletal; Tumour marker; Cancer; Cytoskeleton; Immunology; Neurobiology; Stem cell research

References	Ramaekers, F., Huysmans, A., Schaart, G., Moesker, O., and Vooijs, P. (1987). Tissue distribution of keRatin 7 as monitored by a monoclonal antibody, Exp Cell Res 170, 235-49. Viebahn, C., Lane, E. B., and Ramaekers, F. C. (1988). KeRatin and vimentin expression in early organogenesis of the Rabbit embryo, Cell Tissue Res 253, 553-62. Pieper, F. R., Schaart, G., Krimpenfort, P. J., Henderik, J. B., Moshage, H. J., van de Kemp, A., Ramaekers, F. C., Berns, A., and Bloemendal, H. (1989). Transgenic expression of the muscle-specific intermediate filament protein desmin in nonmuscle cells, J Cell Biol 108, 1009-24. Raats, J. M., Pieper, F. R., Vree Egberts, W. T., Verrijp, K. N., Ramaekers, F. C., and Bloemendal, H. (1990). Assembly of amino-terminally deleted desmin in vimentin-free cells, J Cell Biol 111, 1971-85. Ramaekers, F., van Niekerk, C., Poels, L., Schaafsma, E., Huijsmans, A., Robben, H., Schaart, G., and Vooijs, P. (1990). Use of monoclonal antibodies to keRatin 7 in the differential diagnosis of adenocarcinomas, Am J Pathol 136, 641-55.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	62414289
NCBI GeneID	7431
NCBI Accession #	NP_003371.2
NCBI GenBank Nucleotide #	NM_003380.3
UniProt Accession #	P08670; Q15867; Q15868; Q15869; Q548L2; Q6LER9; Q8N850; Q96ML2; Q9NTM3; B0YJC2; D3DRU4
Molecular Weight	53,652 Da
NCBI Official Full Name	vimentin
NCBI Official Synonym Full Names	vimentin
NCBI Official Symbol	VIM
NCBI Official Synonym Symbols	CTRCT30
NCBI Protein Information	vimentin
UniProt Protein Name	Vimentin
UniProt Gene Name	VIM
UniProt Entry Name	VIME_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.