

BM6008HRP**Monoclonal Antibody to Vimentin - HRP**

Alternate names:	VIM
Quantity:	1 ml
Background:	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.
Uniprot ID:	P08670
NCBI:	NP_003371.2
GeneID:	7431
Host / Isotype:	Mouse / IgG1
Clone:	RV202
Immunogen:	Cytoskeletal Vimentin extract of Bovine lens.
Format:	State: Liquid IgG fraction Buffer System: PBS Preservatives: 0.09% Sodium Azide Stabilizers: 0.1% BSA Label: HRP
Applications:	Immunoblotting. Flow Cytometry. Immunocytochemistry (cell cultures and cytopins). Immunofluorescence. Immunohistochemistry on Frozen Sections. <i>Recommended Dilutions:</i> 1/10. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	RV202 reacts exclusively with Vimentin, which is expressed in mesenchymal cells and mesenchymal derived tumors e.g. lymphoma, sarcoma and melanoma.
Species Reactivity:	Tested: Canine, Chicken, Caprine, Hamster, Human, Monkey, Mouse, Rat, Swine, Zebrafish, Xenopus.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Ramaekers F, Huysmans A, Schaart G, Moesker O, Vooijs P. Tissue distribution of keratin 7 as monitored by a monoclonal antibody. Exp Cell Res. 1987 May;170(1):235-49. PubMed PMID: 2436934. 2. Viebahn C, Lane EB, Ramaekers FC. Keratin and vimentin expression in early

organogenesis of the rabbit embryo. *Cell Tissue Res.* 1988 Sep;253(3):553-62. PubMed PMID: 2460241.

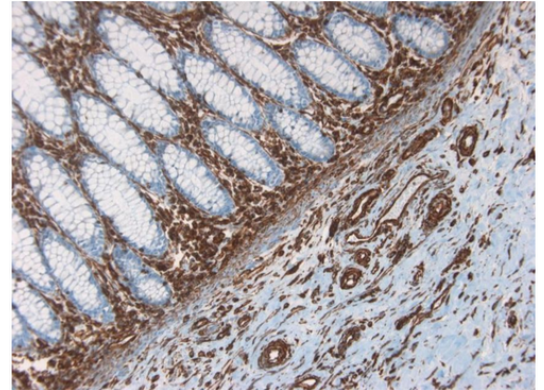
3. Pieper FR, Schaart G, Krimpenfort PJ, Henderik JB, Moshage HJ, van de Kemp A, et al. Transgenic expression of the muscle-specific intermediate filament protein desmin in nonmuscle cells. *J Cell Biol.* 1989 Mar;108(3):1009-24. PubMed PMID: 2646305.

4. Raats JM, Pieper FR, Vree Egberts WT, Verrijp KN, Ramaekers FC, Bloemendal H. Assembly of amino-terminally deleted desmin in vimentin-free cells. *J Cell Biol.* 1990 Nov;111(5 Pt 1):1971-85. PubMed PMID: 1699950.

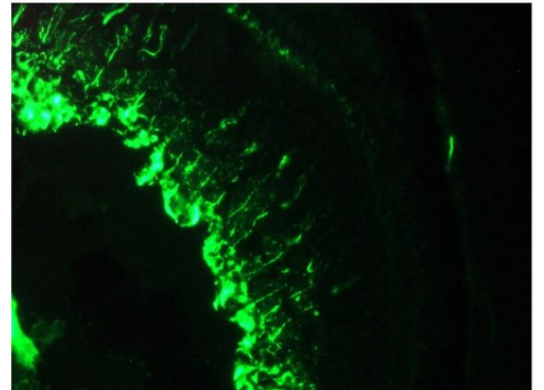
5. Ramaekers F, van Niekerk C, Poels L, Schaafsma E, Huijsmans A, Robben H, et al. Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas. *Am J Pathol.* 1990 Mar;136(3):641-55. PubMed PMID: 1690512.

Pictures:

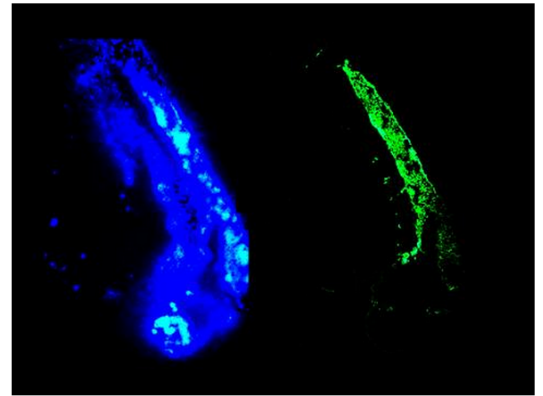
Immunohistochemistry on paraffin section of human colon.



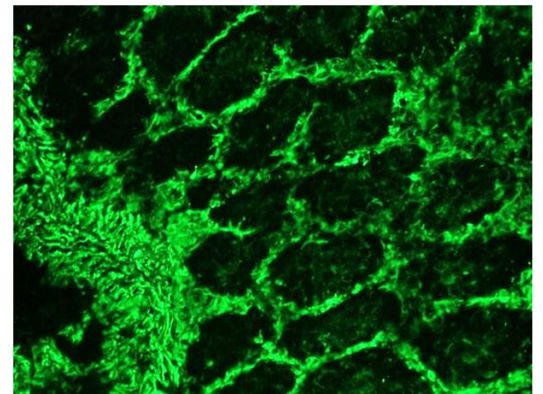
Immunofluorescence staining of a 1 month old zebrafish embryo.



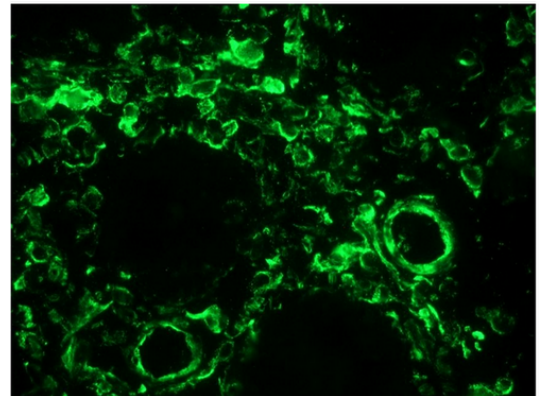
Immunofluorescence staining of the developing neural tube in a 2 days old zebrafish embryo. Left panel: DAPI staining of cell nuclei, providing an overview of the tissue section used for immunostaining.



Immunohistochemistry using Vimentin Antibody Cat.-No BM6008P on Frozen Section of Swine colon showing positive staining in connective tissue cells and no reactivity in epithelial cells.



Frozen Section of Swine colon immunostained with RV202-FITC Vimentin Antibody Cat.-No BM6008F (1/200)



Frozen Section of Swine colon
immunostained with RV202-HRP
Vimentin Antibody Cat.-No BM6008HRP
(1/200).

