

BM6008P**Monoclonal Antibody to Vimentin - Purified**

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| Alternate names: | VIM |
| Quantity: | 0.1 mg |
| Concentration: | 1.0 mg/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 |
| Recommended Isotype Controls: | SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N |
| Clone: | RV202 |
| Immunogen: | Cytoskeletal Vimentin extract of calf lens. |
| Format: | State: Liquid purified IgG fraction Buffer System: PBS Preservatives: 0.09% Sodium Azide |
| Applications: | Immunoblotting. Flow Cytometry. Immunocytochemistry. Immunofluorescence. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections. <i>Recommended Dilutions:</i> 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. 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:

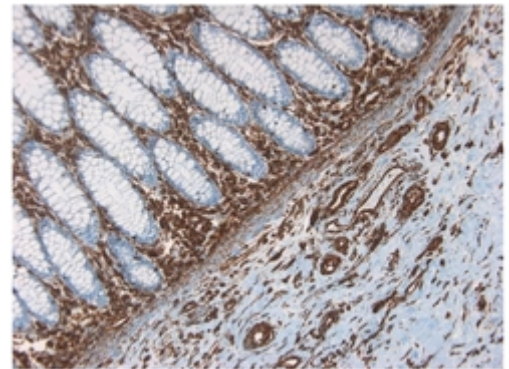
Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freeze-thaw cycles.
Shelf life: One year from despatch.

General Readings:

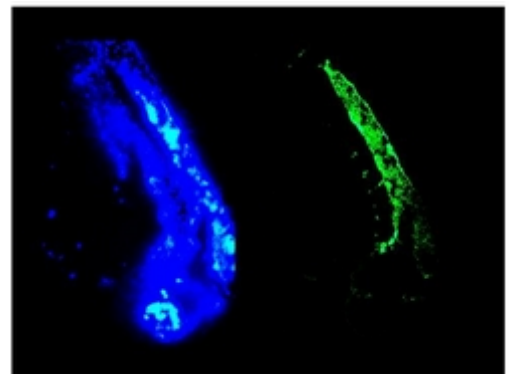
1. Ramaekers F, Huysmans A, Schaart G, Moesker O, Vooijs P. Tissue distribution of keratin 7 as monitored by a monoclonal antibody. *Exp Cell Res.* 1987 May;170(1):235-49. PubMed PMID: 2436934.
2. Viebahn C, Lane EB, Ramaekers FC. Keratin and vimentin expression in early organogenesis of the rabbit embryo. *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:

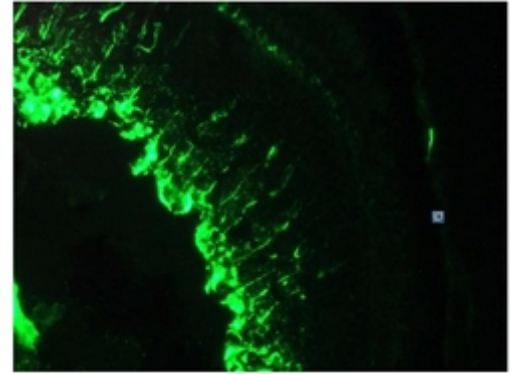
Immunohistochemistry on paraffin section of human colon.



Immunofluorescence staining of 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



Immunofluorescence staining of a 1 month old Zebrafish embryo



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

