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BM5050P Monoclonal Antibody to Vimentin - Purified

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, 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.
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:	V9
Immunogen:	V9 is an antibody derived by fusion of PAI mouse myeloma cells with spleen cells from a BALB/c mouse immunized with Vimentin isolated from Porcine lens.
Format:	**State:** Liquid purified IgG fraction **Buffer System:** PBS with 0.09% Sodium Azide as preservative
Applications:	**Immunoblotting.** **Flow Cytometry.** **Immunocytochemistry.** **Immunohistochemistry on Frozen Sections.** **Immunohistochemistry on Paraffin-Embedded Sections.** *Recommended Dilutions:* 1/25–1/200 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:	The antibody clone *V9* reacts exclusively with vimentin, which is expressed in mesenchymal cells and mesenchymal derived tumors e.g. lymphoma, sarcoma and melanoma.
Species Reactivity:	**Tested:** Human, Rat, Chicken, Sheep and Potoroo
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. Osborn M, Debus E, Weber K. Monoclonal antibodies specific for vimentin. Eur J Cell Biol. 1984 May;34(1):137-43. PubMed PMID: 6428888.
2. Tölle HG, Weber K, Osborn M. Microinjection of monoclonal antibodies specific for one intermediate filament protein in cells containing multiple keratins allow insight into the composition of particular 10 nm filaments. Eur J Cell Biol. 1985 Sep;38(2):234-44. PubMed PMID: 2412818.
3. Van Muijen GN, Ruiter DJ, Warnaar SO. Coexpression of intermediate filament polypeptides in human fetal and adult tissues. Lab Invest. 1987 Oct;57(4):359-69. PubMed PMID: 3669613.
4. Van Muijen GN, Warnaar SO, Ponec M. Differentiation-related changes of cytokeratin expression in cultured keratinocytes and in fetal, newborn, and adult epidermis. Exp Cell Res. 1987 Aug;171(2):331-45. PubMed PMID: 2442018.
5. Corver WE, Koopman LA, van der Aa J, Regensburg M, Fleuren GJ, Cornelisse CJ. Four-color multiparameter DNA flow cytometric method to study phenotypic intratumor heterogeneity in cervical cancer. Cytometry. 2000 Feb 1;39(2):96-107. PubMed PMID: 10679727.
6. De Visscher G, Plusquin R, Mesure L, Flameng W. Selection of an immunohistochemical panel for cardiovascular research in sheep. Appl Immunohistochem Mol Morphol. 2010 Jul;18(4):382-91. doi: 10.1097/PAI.0b013e3181cd32e7. PubMed PMID: 20090513.