Vimentin (Mesenchymal Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone VM1170]

Catalog No	Format	Size
7431-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7431-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7431-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

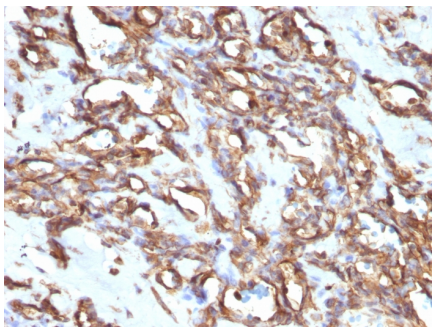
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

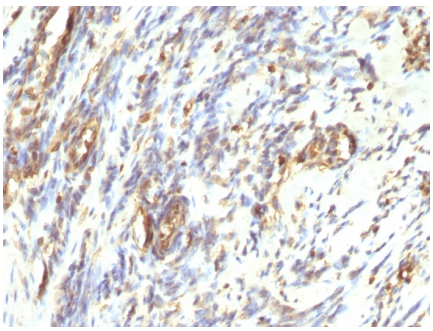
Clone	VM1170
Gene Name	VIM
Immunogen	Recombinant full-length human vimentin protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	57-60kDa
Cellular Localization	Cell membrane, Cytoplasm, Cytoskeleton, Nucleus matrix
Species Reactivity	Human
Positive Control	A375, HEP2 cells. Sarcomas or Melanomas., Raji, U87

**Optimal dilution for a specific application should be determined.*

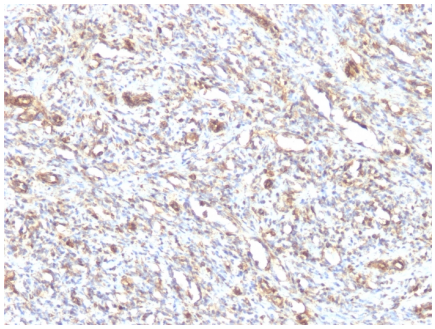
Product Images for Vimentin (Mesenchymal Cell Marker) Antibody



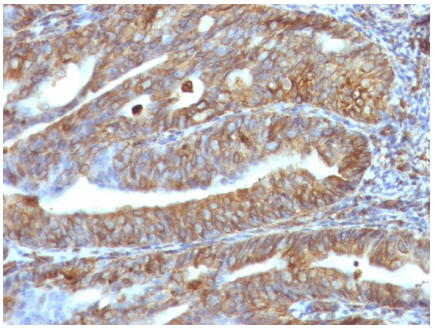
Formalin-fixed, paraffin-embedded human Angiosarcoma stained with Vimentin Mouse Monoclonal Antibody (VM1170).



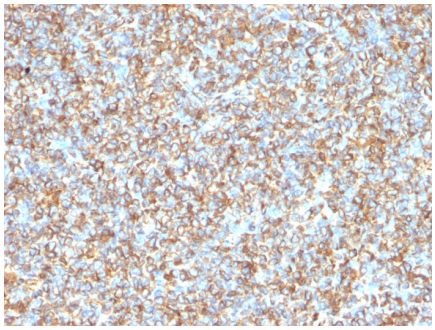
Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Vimentin Mouse Monoclonal Antibody (VM1170).



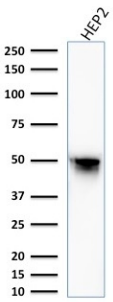
Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Vimentin Mouse Monoclonal Antibody (VM1170).



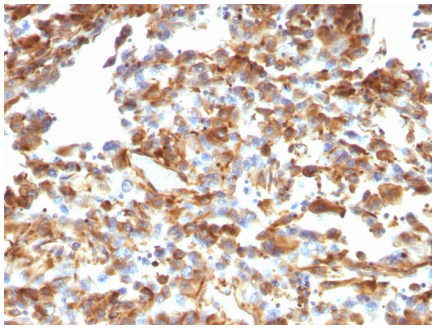
Formalin-fixed, paraffin-embedded human Uterus stained with Vimentin Mouse Monoclonal Antibody (VM1170).



Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with Vimentin Mouse Monoclonal Antibody (VM1170).



Western Blot Analysis of HEP2 cell lysate using Vimentin Mouse Monoclonal Antibody (VM1170).



Formalin-fixed, paraffin-embedded human Melanoma stained with Vimentin Mouse Monoclonal Antibody (VM1170).

Specificity & Comments

This MAb reacts with a 58kDa protein identified as vimentin. It shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.Anti-vimentin alone is of limited value as a diagnostic tool; however, when used in panels with other antibodies, it is useful for the sub-classification of a given tumor. Expression of vimentin, when used in conjunction with anti-keratin, is helpful when distinguishing melanomas from undifferentiated carcinomas and large cell lymphomas. All melanomas and Schwannomas react strongly with anti-vimentin. It labels a variety of mesenchymal cells, including melanocytes, lymphocytes, endothelial cells, and fibroblasts. Non-reactivity of anti-vimentin is often considered more useful than its positive reactivity, since there are a few tumors that do not contain vimentin, e.g. hepatoma and seminoma. Anti-vimentin is also useful as a tissue process control reagent.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Apoptosis, Immunology, Cytokine Signaling, Neural Stem Cells, Ovarian Cancer, Signal Transduction, Stem Cell Differentiation

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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