

Vimentin (Mesenchymal Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone VIM/3736]

Catalog No	Format	Size
7431-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7431-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7431-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

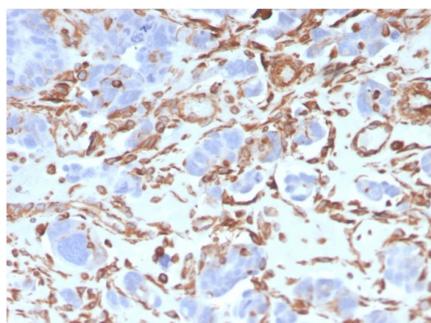
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

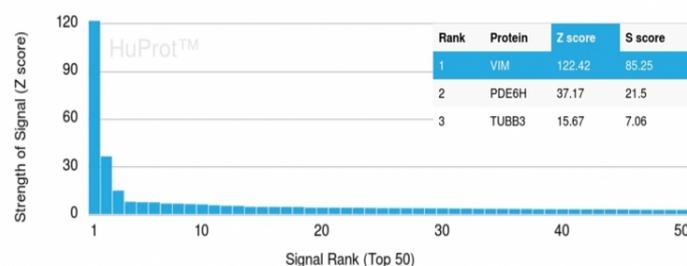
Clone	VIM/3736
Gene Name	VIM
Immunogen	A recombinant fragment (around aa 2-466) of human Vimentin protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	57-60kDa
Cellular Localization	Cell membrane, Cytoplasm, Cytoskeleton, Nucleus matrix
Species Reactivity	Human
Positive Control	A375 or Raji cells. Human sarcomas or melanomas., U87

*Optimal dilution for a specific application should be determined.

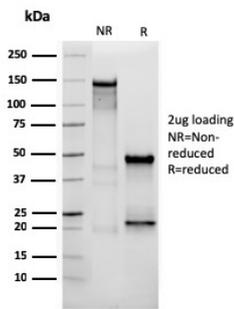
Product Images for Vimentin (Mesenchymal Cell Marker) Antibody



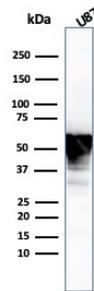
Formalin-fixed, paraffin-embedded human colon carcinoma stained with Vimentin Mouse Monoclonal Antibody (VIM/3736).



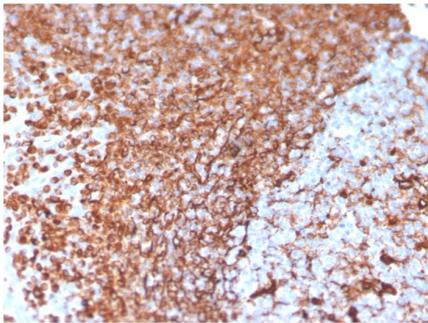
Analysis of Protein Array containing more than 21,000 full-length human proteins using Vimentin Mouse Monoclonal Antibody (VIM/3736) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to be specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE Analysis Purified Vimentin Mouse Monoclonal Antibody(VIM/3736). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of U87 cell lysate using Vimentin Mouse Monoclonal Antibody (VIM/3736).



Formalin-fixed, paraffin-embedded human tonsil stained with Vimentin Mouse Monoclonal Antibody (VIM/3736).

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.

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.

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

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