Recombinant Vimentin (Mesenchymal Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone rVIM/6431]

Catalog No	Format	Size
7431-MSM11-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7431-MSM11-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7431-MSM11-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

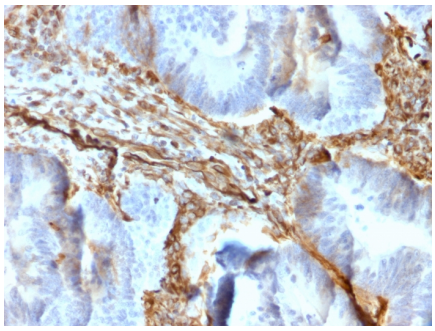
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

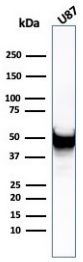
Clone	rVIM/6431
Immunogen	Recombinant fragment (around aa2-466) of the human Vimentin protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	53.65kDa
Cellular Localization	Cell membrane, Cytoplasm, Cytoskeleton, Nucleus matrix
Species Reactivity	Human
Positive Control	Raji, U-87, Jurkat or HeLa cells. Human lymph node or tonsil. Heart, Skeletal muscle, Skin, A549.

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

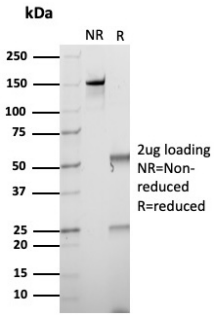
Product Images for Recombinant Vimentin (Mesenchymal Cell Marker) Antibody



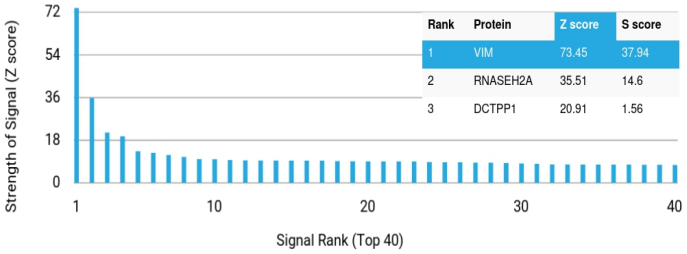
Formalin-fixed, paraffin-embedded human colon stained with Vimentin Recombinant Mouse Monoclonal Antibody (rVIM/6431).



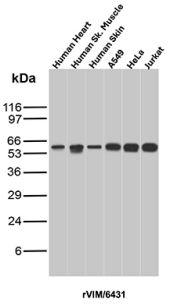
Western blot analysis of U87 cell lysate using Vimentin Recombinant Mouse Monoclonal Antibody (rVIM/6431).



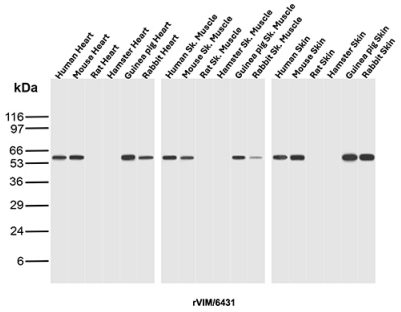
SDS-PAGE Analysis of Purified Vimentin Recombinant Mouse Monoclonal Antibody (rVIM/6431). Confirmation of Purity and Integrity of Antibody.



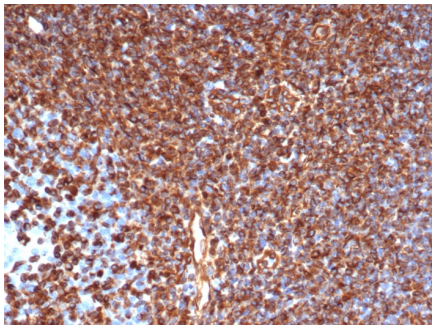
Analysis of HuProt™ Protein Array (21,000+ full-length human proteins) with Vimentin Mouse Monoclonal Antibody (rVIM/6431). Z-score: Signal strength (in SD above the mean) of antibody binding to each protein. S-score: Difference in Z-scores between the top target and the next best hit, indicating relative specificity. An antibody is considered specific if S ? 2.5. Example: Binding to protein X (Z = 43) vs protein Y (Z = 14) ? S = 29.



Western Blot Analysis of Human Heart, Human Skeletal muscle, Human Skin, A549, HeLa and Jurkat lysates using Vimentin Recombinant Mouse Monoclonal Antibody (rVIM/6431).



Western Blot Analysis of Heart, Skeletal muscle and Skin lysates of different species using Vimentin Recombinant Mouse Monoclonal Antibody (rVIM/6431).



Formalin-fixed, paraffin-embedded human tonsil stained with Vimentin Recombinant Mouse Monoclonal Antibody (rVIM/6431).

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 produced in a mammalian-based expression system. 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.

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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.