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36-1799: Monoclonal Antibody to Vimentin (Mesenchymal Cell Marker)(Clone : VM452)

Clonality :	Monoclonal
Clone Name :	VM452
Application :	IHC,FACS,WB
Reactivity :	Human
Gene :	VIM
Gene ID :	7431
Uniprot ID :	P08670
Format :	Purified
Alternative Name :	VIM
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant full-length human vimentin protein

Description

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.

Product Info

Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Flow Cytometry (1-2ug/million cells); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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);

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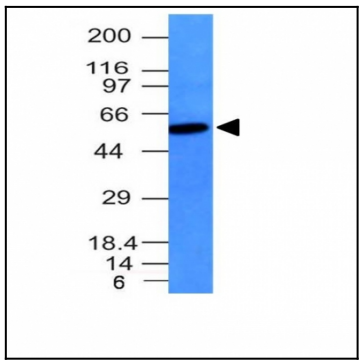
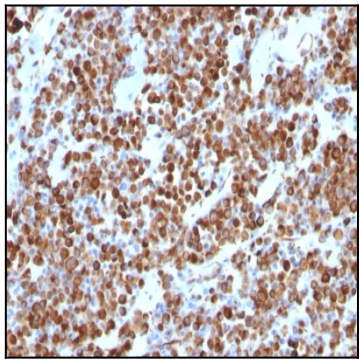
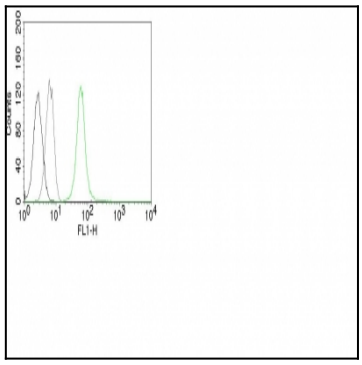


Western Blot of Raji Cell Lysateusing Vimentin Monoclonal Antibody (VM452)



Formalin-fixed, paraffin-embedded human Melanoma stained with Vimentin Monoclonal Antibody (VM452).



Flow Cytometry of human Vimentin on Jurkat Cells.Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled Vimentin Monoclonal Antibody (VM452).