



Datasheet for ABIN6940879

anti-Vimentin antibody



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6 Images

Overview

Quantity:	100 µg
Target:	Vimentin (VIM)
Reactivity:	Human, Pig, Cow, Chicken, Dog, Cat, Goat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human vimentin protein
Clone:	VM452
Isotype:	IgG1 kappa
Specificity:	This MAb reacts with a 58 kDa 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

Product Details

seminoma. Anti-vimentin is also useful as a tissue process control reagent.

No Cross-Reactivity: Mouse (Murine), Rat (Rattus)

Purification: Purified by Protein A/G

Target Details

Target: Vimentin (VIM)

Alternative Name: VIM ([VIM Products](#))

Molecular Weight: 57-60kDa

Gene ID: 7431

UniProt: [P08670](#)

Pathways: [Caspase Cascade in Apoptosis](#)

Application Details

Application Notes: Positive Control: Raji, Jurkat or HeLa cells. Sarcomas or Melanomas.
Known Application: Flow Cytometry (1-2 µg/million cells), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1.0 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

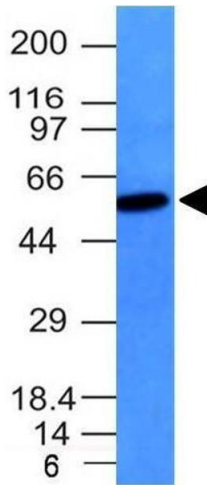
Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

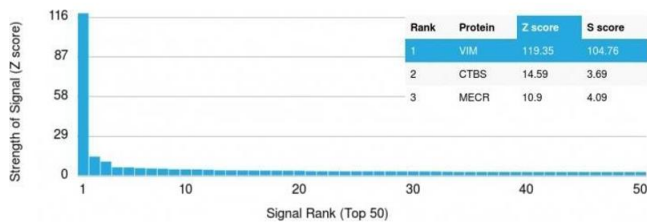
Storage: 4 °C,-80 °C

Storage Comment: 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.



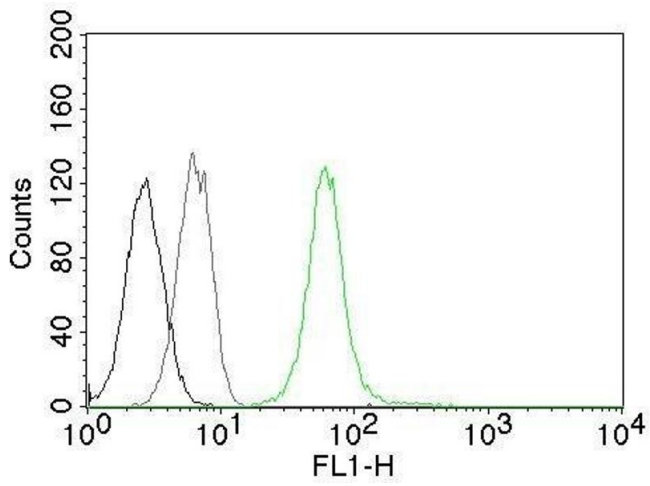
Western Blotting

Image 1. Western Blot Analysis Raji cell lysate Vimentin Mouse Monoclonal Antibody (VM452).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Vimentin (VIM) Mouse Monoclonal Antibody (VM452) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAB) (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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



Flow Cytometry

Image 3. Flow Cytometry of human Vimentin on Jurkat cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled Vimentin Mouse Monoclonal Antibody (VM452).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6940879.