Datasheet for ABIN6940884

anti-Vimentin antibody (AA 2-466)

5 Images

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Overview

Quantity:	100 µg
Target:	Vimentin (VIM)
Binding Specificity:	AA 2-466
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Vimentin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	A recombinant fragment (around aa 2-466) of human Vimentin protein (exact sequence is proprietary)
Clone:	VIM-3736
Isotype:	IgG2b 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

Product Details

	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.
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: U87, A375, Raji, HEP2 cells. Sarcomas or Melanomas. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 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

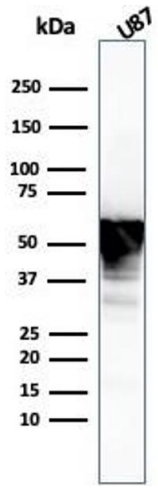
Handling

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

Handling

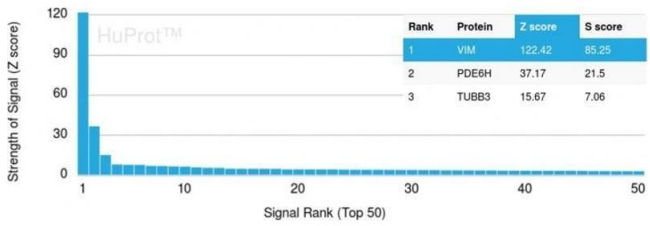
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



Western Blotting

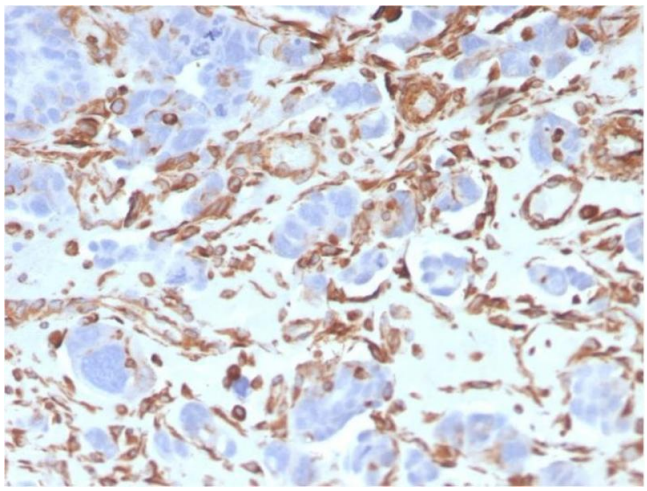
Image 1. Western Blot Analysis of U87 cell lysate using Vimentin Mouse Monoclonal Antibody (VIM/3736).



Protein Array

Image 2. 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 HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) 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 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Vimentin Mouse Monoclonal Antibody (VIM/3736).

Please check the product details page for more images. Overall 5 images are available for ABIN6940884.