antibodies - online.com







anti-Vinculin antibody (AA 174-322)





Overview

Quantity:	100 μg
Target:	Vinculin (VCL)
Binding Specificity:	AA 174-322
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Vinculin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Staining Methods (StM)
Product Details	

Product Details

Immunogen:	Recombinant fragment (around aa 174-322) of human Vinculin (VCL) protein (exact sequence is proprietary)
Clone:	VCL-2575
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Vinculin (VCL)
Alternative Name:	VCL (VCL Products)
Background:	Focal adhesions are identified as areas within the plasma membrane of tissue culture cells that

Target Details	
	adhere tightly to the underlying substrate. In vivo, these regions are involved in the adhesion of cells to the extracellular matrix. Paxillin and vinculin are cytoskeletal, focal adhesion proteins that are components of a protein complex which links the Actin network to the plasma membrane. Vinculin binding sites have been identified on other cytoskeletal proteins, including Talin and -Actinin. In addition, vinculin, Talin and -Actinin each contain Actin binding sites. Expression of vinculin and Talin have been shown to be affected by the level of Actin expressionActinin has been shown to link Actin to integrins in the plasma membrane through interactions with the vinculin and Talin complex or by a direct interaction with integrin.
Molecular Weight:	117kDa
Gene ID:	7414
UniProt:	P18206
Pathways:	Cell-Cell Junction Organization, Maintenance of Protein Location, Signaling Events mediated by VEGFR1 and VEGFR2
Application Details	
Application Notes:	Positive Control: A431, K562, NIH3T3, U-87, THP-1 cells. Human Bladder and Testis. Known Application: Western Blot (1-2 μ g/mL), ,Immunohistochemistry (Formalin-fixed) (1-2 μ g/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

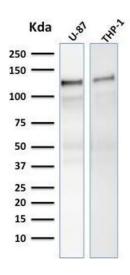
Handling

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.

Expiry Date:

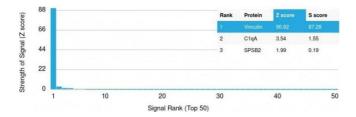
24 months

Images



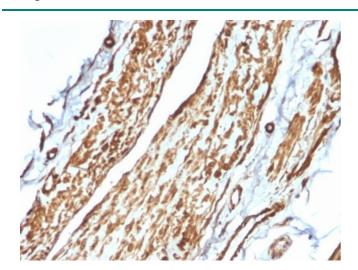
Western Blotting

Image 1. Western Blot Analysis of human U-87, THP-1 cell lysate using VCL Mouse Monoclonal Antibody (VCL/2575).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Mouse Vinculin Monoclonal Antibody (VCL/2575) Z- and S- Score: The Zscore 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 HuProtTM 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 HuProtTM are arranged in descending order of the Zscore, 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with VCL Mouse Monoclonal Antibody (VCL/2575).

Please check the product details page for more images. Overall 4 images are available for ABIN6940866.