

Datasheet for ABIN6940864
anti-Vinculin antibody (AA 174-322)[Go to Product page](#)

4 Images

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

Immunogen:	Recombinant fragment (around aa 174-322) of human Vinculin (VCL) protein (exact sequence is proprietary)
Clone:	VCL-2572
Isotype:	IgG1 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 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: U-87, THP-1 cells Human Bladder and Testis.
Known Application: Western Blot (1-2 µg/mL), 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.

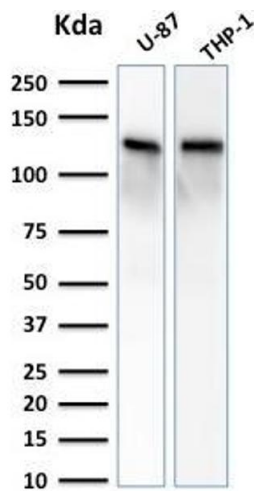
Preservative: Sodium azide

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

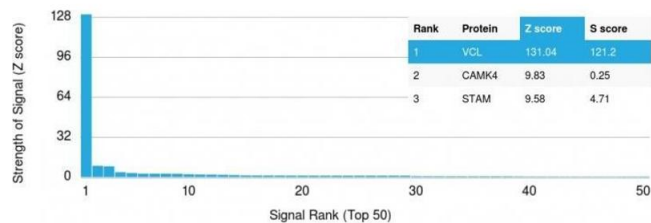
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



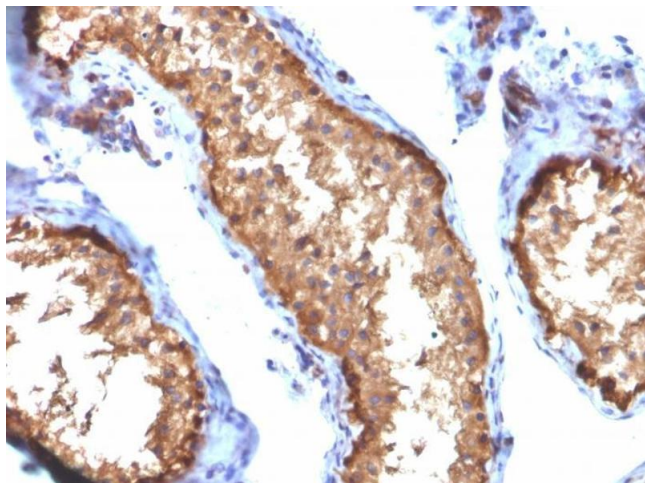
Western Blotting

Image 1. Western Blot Analysis of U-87 and THP-1 cell lysate using VCL Mouse Monoclonal Antibody (VCL/2572).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Vinculin Mouse Monoclonal Antibody (VCL/2572). 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 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 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Testis stained with VCL Mouse Monoclonal Antibody (VCL/2572).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940864.