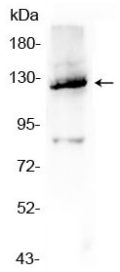
Vinculin Antibody for Western Blot / VCL WB Antibody (R32692)

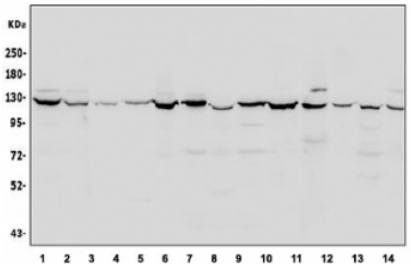
Catalog No.	Formulation	Size
R32692	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

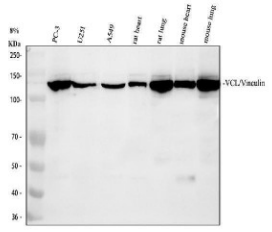
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P18206
Applications	Western blot: 0.5-1ug/ml
Limitations	This Vinculin Antibody for Western Blot / VCL WB Antibody is available for research use only.



Vinculin Antibody Human A549 Cell WB. Western blot analysis demonstrates detection of Vinculin in human A549 cell lysate. A strong band is observed at approximately 124 kDa, consistent with the predicted molecular weight of Vinculin. This Vinculin Antibody for Western Blot / VCL WB Antibody provides robust detection of endogenous VCL in human cells, making it well suited for studies of focal adhesion complexes, cytoskeletal organization, cell adhesion, and mechanotransduction signaling.



Vinculin Antibody Multi-Species WB. Western blot analysis demonstrates broad detection of Vinculin across human, rat, and mouse samples. Lane 1: human HeLa, Lane 2: human U-87 MG, Lane 3: human HT1080, Lane 4: human SW549, Lane 5: human PANC-1, Lane 6: human PC-3, Lane 7: rat heart, Lane 8: rat brain, Lane 9: rat liver, Lane 10: rat PC-12, Lane 11: mouse heart, Lane 12: mouse liver, Lane 13: mouse HEPA1-6, and Lane 14: mouse NIH 3T3 lysates. A consistent band is detected at approximately 124 kDa, matching the predicted molecular weight of Vinculin. This Vinculin Antibody for Western Blot / VCL WB Antibody is well suited for comparative analysis of VCL expression across diverse tissues and cell lines in focal adhesion and cytoskeletal research.



Vinculin Antibody Human, Rat and Mouse WB. Western blot analysis demonstrates detection of Vinculin in human, rat, and mouse samples. Lane 1: human PC-3 whole cell lysate, Lane 2: human U251 whole cell lysate, Lane 3: human A549 whole cell lysate, Lane 4: rat heart tissue lysate, Lane 5: rat lung tissue lysate, Lane 6: mouse heart tissue lysate, Lane 7: mouse lung tissue lysate. A prominent band is detected at approximately 124 kDa, consistent with the expected molecular weight of Vinculin. This Vinculin Antibody for Western Blot, also called VCL WB Antibody, provides reliable detection of endogenous VCL across multiple species, making it well suited for comparative immunoblot analysis of focal adhesion biology, cytoskeletal organization, and cell adhesion signaling.

Description

Vinculin Antibody for Western Blot recognizes vinculin (VCL), a highly conserved cytoskeletal protein that functions as a critical component of focal adhesions and adherens junctions. Vinculin links integrins and cadherins to the actin cytoskeleton, providing the structural framework required for stable cell adhesion, force transmission, and mechanotransduction. Because VCL is broadly expressed in adherent cells and migrates as a well-defined protein at approximately 124 kDa, it has become one of the most frequently analyzed focal adhesion proteins by Western blot. Researchers routinely use Vinculin Antibody for Western Blot to evaluate protein expression, compare adhesion-related signaling pathways, and confirm changes in cytoskeletal organization across multiple experimental conditions.

Western blot remains one of the preferred methods for studying vinculin because it enables reliable detection of endogenous protein expression in cultured cells and tissue lysates from multiple species. Changes in vinculin abundance or processing have been associated with alterations in focal adhesion assembly, extracellular matrix interactions, cell migration, and epithelial-to-mesenchymal transition. Consequently, VCL Western blot analysis is widely used in cancer biology, developmental biology, stem cell research, cardiovascular studies, wound healing, and mechanobiology. Detection of the expected approximately 124 kDa band provides a straightforward means of confirming VCL expression while allowing comparison between normal and disease-associated samples.

This rabbit polyclonal antibody has been extensively validated for Western blot using numerous human, mouse, and rat tissues and cultured cell lines. Broad validation across multiple sample types provides confidence for researchers investigating VCL expression under diverse experimental conditions. Consistent detection of the expected molecular weight band makes this antibody well suited for studies of focal adhesion proteins, cytoskeletal remodeling, and cell adhesion signaling. The extensive Western blot validation also provides valuable reference data for selecting appropriate positive control samples and optimizing experimental conditions.

A Vinculin Antibody for Western Blot is an excellent tool for detecting endogenous VCL protein expression, comparing vinculin levels across tissues and cell lines, and investigating focal adhesion biology, cytoskeletal organization, mechanotransduction, and cell migration using immunoblot analysis.

Learn more about focal adhesion biology and vinculin research by visiting our Vinculin Antibody / Focal Adhesion Protein Antibody page.

Application Notes

Optimal dilution of the Vinculin Antibody for Western Blot / VCL WB Antibody should be determined by the researcher.

Immunogen

Amino acids E930-Q1134 from the human protein were used as the immunogen for the Vinculin antibody.

Storage

After reconstitution, the Vinculin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Vinculin Antibody for Western Blot, VCL WB Antibody

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