

Vinculin Polyclonal Antibody

Catalog NumberPA5-19842

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Sheep, Rat
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	Western Blot (WB)	1 µg/mL
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1100 to the C-terminus of Human Vinculin.	Published Applications	
Conjugate	Unconjugated	Western Blot (WB)	See 1 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1.0 mg/mL		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with horse, chicken, cow, pig, chimpanzee, zebrafish, rhesus monkey and zebra finch based on sequence homology. Store antibody at 4°C for 1-2 weeks. For long-term storage, store at -20°C.

Background/Target Information

Vinculin (VCL) is a cytoskeletal protein associated with cell-cell and cell-extracellular matrix adherens-type junctions. It functions as one of several interacting proteins involved in anchoring F-actin to the membrane. It has been shown that a sequence of molecular interactions might be involved in the transmembrane assembly of adhesion plaques. In the assembly of adhesion plaques, the beta subunit of integrin binds to talin. Talin binds to vinculin that interacts with alpha-actinin and possibly with itself. Since alpha-actinin binds to and cross-links actin filaments, vinculin represents a key element in the transmembrane linkage of the extracellular matrix to the cytoplasmic microfilament system. Mutations in the gene can result in cardiomyopathy dilated 1W or familial hypertrophic 15.

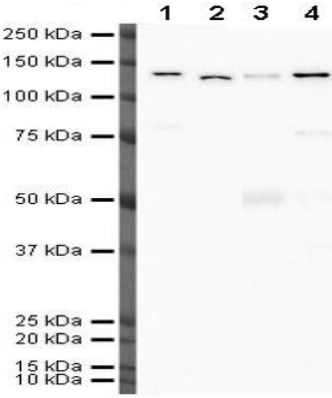
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Product Images For Vinculin Polyclonal Antibody



Vinculin Antibody (PA5-19842) in WB
Western blot analysis of mouse kidney tissue lysate using Product # PA5-19842, Vinculin primary antibody at a dilution of 1 µg/mL (lane 1). Staining of EBS E14 TG2A Day 3 whole cell lysate at a dilution of 1 µg/mL (Lane 2). Staining of HepG2 whole cell lysate at a dilution of 1 µg/mL (lane 3). Lane 4: Vinculin antibody at 1 µg/mL + human skeletal muscle tissue lysate at 10ug Blot treated with a secondary HRP-conjugated Goat polyclonal anti-Rabbit antibody was used at a dilution of 1:3000.

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PubMed References For Vinculin Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
Human / 1:2500	PA5-19842 was used in western blot to develop and characterize patient-derived primary xenografts to a model of muscle invasive bladder cancer.
	Oncotarget (2015; 6: 21522) "Patient-derived bladder cancer xenografts in the preclinical development of novel targeted therapies." Author(s):Jäger W,Xue H,Hayashi T,Janssen C,Awrey S,Wyatt AW,Anderson S,Moskalev I,Haegert A,Alshalalfa M,Erho N,Davicioni E,Fazli L,Li E,Collins C,Wang Y,Black PC PubMed Article URL: http://dx.doi.org/10.18632/oncotarget.3974

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