

Rabbit anti-Human, Mouse VCL Polyclonal Antibody | anti-VCL antibody

VCL Polyclonal Antibody

CATALOG # AAA37326	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

VCL; Polyclonal Antibody; VCL Polyclonal Antibody; MV; MVCL; CMD1W; CMH15; anti-VCL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	1134
Applicable Applications for anti-VCL antibody	IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human VCL
Calculated Molecular Weight	124kDa
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH 7.3.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human smooth muscle using VCL Antibody at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using VCL antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 40s.

ADDITIONAL INFORMATION

Related Product Information for anti-VCL antibody	Vinculin is a cytoskeletal protein that plays an important role in the regulation of focal adhesions and embryonic development (1-4). Three structural vinculin domains include an amino-terminal head, a short, flexible proline-rich region and a carboxy-terminal tail (1). In the inactive state, the head and tail domains of vinculin interact to form a closed confirmation. The open and active form of vinculin translocates to focal adhesions where it is thought to be involved in anchoring F-actin to the membrane and regulation of cell migration (2). Phospholipid binding to the tail domain and subsequent phosphorylation of vinculin at Ser1033 and Ser1045 by PKC-alpha and Tyr100 and Tyr1065 by Src kinases weakens the head-tail interaction (5,6). This change in vinculin allows the binding of a number of other proteins, including talin, alpha-actinin and paxillin, which disrupts the head-tail interaction and initiates the conformational change from the inactive to active state (2,4). Vinculin deficiencies are associated with a decrease in cell adhesion and an increase in cell motility, suggesting a possible role in metastatic growth (7,8). This is supported by a recently demonstrated relationship between decreased vinculin expression and increased carcinogenesis and metastasis in colorectal carcinoma (9).
Product Categories/Family for anti-VCL antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	21903479
NCBI GeneID	7414
UniProt Accession #	P18206; Q16450; Q5SWX2; Q7Z3B8; Q8IXU7
Molecular Weight	1134
NCBI Official Full Name	Vinculin
NCBI Official Synonym Full Names	vinculin
NCBI Official Symbol	VCL
NCBI Official Synonym Symbols	MV; MVCL; CMD1W; CMH15; HEL114
NCBI Protein Information	vinculin; metavinculin; epididymis luminal protein 114
UniProt Protein Name	Vinculin
UniProt Gene Name	VCL
UniProt Synonym Gene Names	MV
UniProt Entry Name	VINC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/vcl-antibody-immunohistochemistry-western-blot-elisa/37326>