Mouse Vinculin Monoclonal Antibody | anti-VCL antibody

Vinculin (Marker of Age-related Macular Degeneration)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23953	**Mouse**	**Human, Mouse, Rat, Cow, Pig, Rabbit, Frog, Fish, Bird**	**Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry**

PRODUCT SYNONYMS

Vinculin; Monoclonal Antibody; Vinculin (Marker of Age-related Macular Degeneration); CMD1W; CMH15; Epididymis luminal protein 114; HEL114; Metavinculin; MV; MVCL; VCL; VINC; anti-VCL antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Cow, Pig, Rabbit, Frog, Fish, Bird
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	VCL/3617
Specificity	This antibody recognizes both Vinculin (125kDa) and meta-Vinculin (135kDa). Focal adhesions are identified as areas within the plasma membrane of tissue culture cells that 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	1066
Applicable Applications for anti-VCL antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	IF: 1-2ug/ml FC/FACS: 1-2ug/million cells IHC-P: 1-2ug/ml for 30 minutes at RT Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 degree C followed by cooling at RT for 20 minutes
Immunogen	Recombinant full-length Human Vinculin protein (VCL)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	10q22.2
Positive Control	A431, K562, NIH3T3, U-87, THP-1 cells. Bladder and Testis
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

IF (Immunofluorescence)
Immunofluorescence Analysis of PFA fixed U87 cells labeling VCL-Monospecific Mouse Monoclonal Antibody (VCL/3617) followed by Goat anti-mouse IgG-CF488 (Green).

FCM (Flow Cytometry)
Flow Cytometric Analysis of PFA-fixed U87 cells using Vinculin Mouse Monoclonal Antibody (VCL/3617) followed by goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).

Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using Mouse Vinculin Monoclonal Antibody (VCL/3617). 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.

SDS-PAGE
SDS-PAGE Analysis VCL-Monospecific Mouse Monoclonal Antibody(VCL/3617). Confirmation of Purity and Integrity of Antibody.

IHC (Immunohistochemistry-Formalin)
Formalin-fixed, paraffin-embedded human testis stained with VCL-Monospecific Mouse Monoclonal Antibody(VCL/3617).

IHC (Immunohistochemistry-Formalin)
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with VCL-Monospecific Mouse Monoclonal Antibody (VCL/3617).

ADDITIONAL INFORMATION

References	Glukhova M.A. et al. Developmental Changes in Expression of Contractile and Cytoskeletal Proteins in Human Aortic Smooth Muscle. J. Biol. Chem., 265: 13042-13046; 1990.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507877
NCBI GeneID	7414
NCBI Accession #	NP_003364.1
NCBI GenBank Nucleotide #	NP_003364.1
UniProt Accession #	P18206
Molecular Weight	125-135kDa
NCBI Official Full Name	vinculin isoform VCL
NCBI Official Synonym Full Names	vinculin
NCBI Official Symbol	VCL
NCBI Official Synonym Symbols	MV; MVCL; CMD1W; CMH15; HEL114
NCBI Protein Information	vinculin
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.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/vinculin-antibody-clone-vcl-3617-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/23953