ARG10662
anti-Vinculin antibody [HVIN-1 (VIN-54)]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [HVIN-1 (VIN-54)] recognizes Vinculin
Tested Reactivity	Hu, Ms, Rat, Chk, Mk
Tested Application	IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	HVIN-1 (VIN-54)
Isotype	IgG1
Target Name	Vinculin
Species	Human
Immunogen	Human vinculin purified from uterus tissue.
Conjugation	Un-conjugated
Alternate Names	HEL114; Metavinculin; CMH15; Vinculin; CMD1W; MV; MVCL

Application Instructions

Application table

Application	Dilution
IHC-Fr	2 - 4 µg/ml for formalin or acetone fixed tissues
WB	1 - 2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

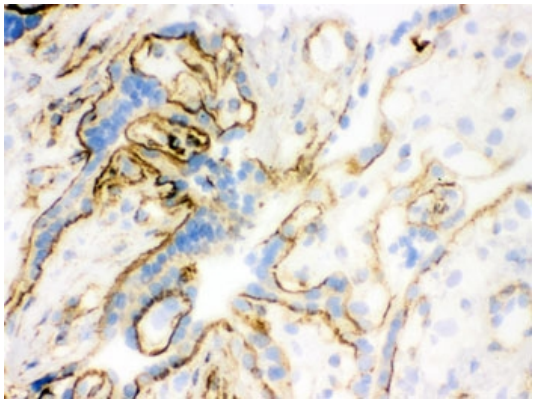
Properties

Form	Liquid
Purification	Unpurified ascites
Buffer	PBS, 0.01% Sodium azide and 1% BSA.
Preservative	0.01% Sodium azide
Stabilizer	1% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

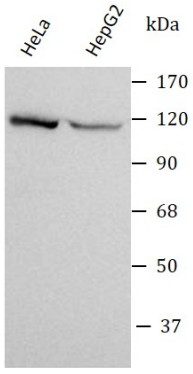
Gene Symbol	VCL
Gene Full Name	vinculin
Background	Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]
Function	Actin filament (F-actin)-binding protein involved in cell-matrix adhesion and cell-cell adhesion. Regulates cell-surface E-cadherin expression and potentiates mechanosensing by the E-cadherin complex. May also play important roles in cell morphology and locomotion. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Controls and Markers antibody; Signaling Transduction antibody; Loading Control antibody; Loading Control antibody for cytoplasmic fraction; High MW loading control antibody
Calculated Mw	124 kDa
PTM	Phosphorylated; on serines, threonines and tyrosines. Phosphorylation on Tyr-1133 in activated platelets affects head-tail interactions and cell spreading but has no effect on actin binding nor on localization to focal adhesion plaques (By similarity). Acetylated; mainly by myristic acid but also by a small amount of palmitic acid.
Cellular Localization	Cytoplasmic

Images



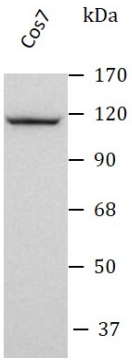
ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)] IHC-Fr image

Immunohistochemistry: Frozen section of Human placenta tissue stained with ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)].



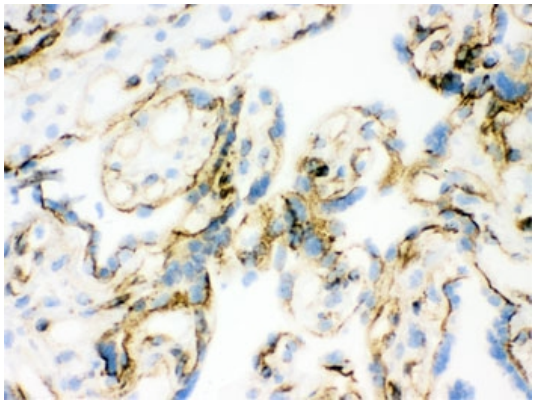
ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)] WB image

Western blot: Hela and HepG2 were stained with ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)] at 1:100 dilution.



ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)] WB image

Western blot: Cos7 were stained with ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)] at 1:100 dilution.



ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)] IHC-Fr image

Immunohistochemistry: Frozen section of Human placenta tissue stained with ARG10662 anti-Vinculin antibody [HVIN-1 (VIN-54)].