

Anti-Vinculin antibody - N-terminal ab82418

2 图像

概述

产品名称	Anti-Vinculin抗体- N-terminal
描述	兔多克隆抗体to Vinculin - N-terminal
宿主	Rabbit
经测试应用	适用于: IHC-P, WB, ELISA
种属反应性	与反应: Mouse, Human
免疫原	KLH conjugated synthetic peptide selected from the N-terminal region of human Vinculin.
阳性对照	K562 cell line lysate. Mouse lung tissue lysate.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium azide Constituent: PBS
纯度	Ammonium Sulphate Precipitation
纯化说明	ab82418 is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用ab82418于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

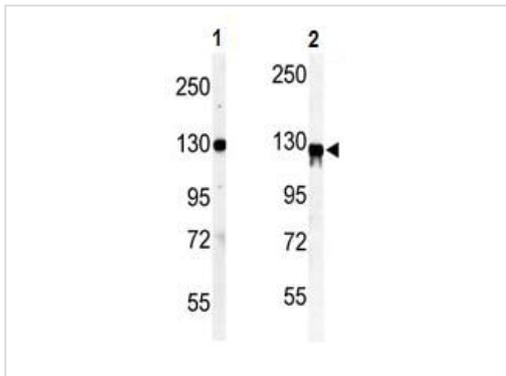
应用	Ab评论	说明
IHC-P		1/50 - 1/100.
WB		1/50 - 1/100. Predicted molecular weight: 124 kDa.

应用	Ab评论	说明
ELISA		1/1000.

靶标

功能	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.
组织特异性	Metavinculin is muscle-specific.
疾病相关	<p>Defects in VCL are the cause of cardiomyopathy dilated type 1W (CMD1W) [MIM:611407]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.</p> <p>Defects in VCL are the cause of cardiomyopathy familial hypertrophic type 15 (CMH15) [MIM:613255]. It is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.</p>
序列相似性	Belongs to the vinculin/alpha-catenin family.
结构域	<p>Exists in at least two conformations. When in the closed, 'inactive' conformation, extensive interactions between the head and tail domains prevent detectable binding to most of its ligands. It takes on an 'active' conformation after cooperative and simultaneous binding of two different ligands. This activation involves displacement of the head-tail interactions and leads to a significant accumulation of ternary complexes. The active form then binds a number of proteins that have both signaling and structural roles that are essential for cell adhesion.</p> <p>The N-terminal globular head (Vh) comprises of subdomains D1-D4. The C-terminal tail (Vt) binds F-actin and cross-links actin filaments into bundles. An intramolecular interaction between Vh and Vt masks the F-actin-binding domain located in Vt. The binding of talin and alpha-actinin to the D1 subdomain of vinculin induces a helical bundle conversion of this subdomain, leading to the disruption of the intramolecular interaction and the exposure of the cryptic F-actin-binding domain of Vt. Vt inhibits actin filament barbed end elongation without affecting the critical concentration of actin assembly.</p>
翻译后修饰	<p>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.</p> <p>Aceylated; mainly by myristic acid but also small amount of palmitic acid.</p>
细胞定位	Cytoplasm > cytoskeleton. Cell junction > adherens junction. Cell membrane. Cytoplasmic face of adhesion plaques. Recruitment to cell-cell junctions occurs in a myosin II-dependent manner. Interaction with CTNNB1 is necessary for its localization to the cell-cell junctions.

图片



Western blot - Anti-Vinculin antibody - N-terminal (ab82418)

All lanes : Anti-Vinculin antibody - N-terminal (ab82418) at 1/50 dilution

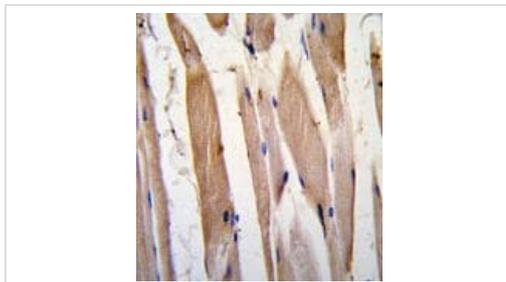
Lane 1 : K562 cell lysate

Lane 2 : Mouse lung tissue lysate

Lysates/proteins at 35 µg per lane.

Predicted band size: 124 kDa

Observed band size: 124 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vinculin antibody - N-terminal (ab82418)

ab82418 at 1/100 dilution staining Vinculin -N- terminal in human skeletal tissue sections by Immunohistochemistry (Formalin/ PFA fixed paraffin embedded tissue sections).

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