10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EHD2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5422

Product Information

Application	IHC-P, WB
Primary Accession	Q9NZN4
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61161
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	30846
Antigen Region	415-449
Other Names	EH domain-containing protein 2, PAST homolog 2, EHD2, PAST2
Dilution	IHC-P~~1:100~500 WB~~1:1000
Target/Specificity	This EHD2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 415-449 amino acids from the C-terminal region of human EHD2.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EHD2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EHD2 (HGNC:3243)
Function	ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis (By similarity). Plays a role in membrane trafficking between the plasma membrane and endosomes

(PubMed:17233914). Important for the internalization of GLUT4. Required for fusion of myoblasts to skeletal muscle myotubes. Required for normal translocation of FER1L5 to the plasma membrane (By similarity). Regulates the equilibrium between cell surface-associated and cell surface-dissociated caveolae by constraining caveolae at the cell membrane (PubMed:25588833).

Cellular Location

Cell membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q8BH64}; Cytoplasmic side {ECO:0000250|UniProtKB:Q8BH64}. Membrane, caveola; Peripheral membrane protein {ECO:0000250|UniProtKB:Q8BH64}; Cytoplasmic side {ECO:0000250|UniProtKB:Q8BH64}. Endosome membrane {ECO:0000250|UniProtKB:Q4V8H8}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q4V8H8}; Cytoplasmic side {ECO:0000250|UniProtKB:Q4V8H8}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8BH64}. Note=Colocalizes with GLUT4 in intracellular tubulovesicular structures that are associated with cortical F-actin. Colocalizes with FER1L5 at plasma membrane in myoblasts and myotubes. {ECO:0000250|UniProtKB:Q8BH64}

Tissue Location

Highly expressed in heart and moderately expressed in placenta, lung, and skeletal muscle.

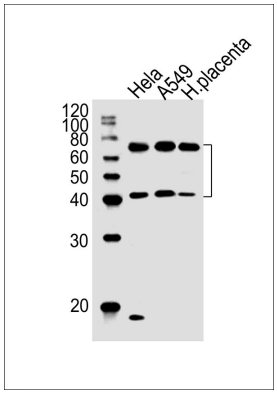
Background

Plays a role in membrane reorganization in response to nucleotide hydrolysis. Binds to liposomes and deforms them into tubules. Plays a role in membrane trafficking between the plasma membrane and endosomes. Important for the internalization of GLUT4. Required for normal fusion of myoblasts to skeletal muscle myotubes. Required for translocation of FER1L5 to the plasma membrane. Binds ATP; does not bind GTP (By similarity).

References

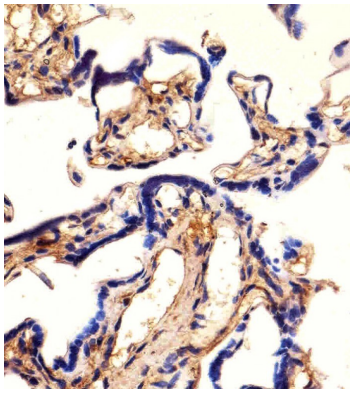
Pohl U.,et al.Genomics 63:255-262(2000).
Benjamin S.,et al.Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Aboulaich N.,et al.Biochem. J. 383:237-248(2004).

Images

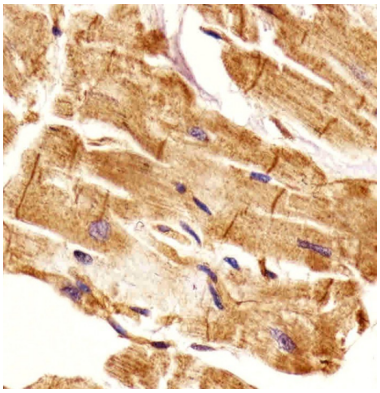


All lanes : Anti-EHD2 Antibody (C-term) at 1:1000 dilution Lane 1: Hela whole cell lysates Lane 2: A549 whole cell lysates Lane 3: human placenta lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 61 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Immunohistochemical analysis of paraffin-embedded H. placenta section using EHD2 Antibody (C-term)(Cat# AW5422). AW5422 was diluted at 1:25 dilution. A



undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. heart section using EHD2 Antibody (C-term)(Cat# AW5422). AW5422 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.