

**EHD2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5422****Specification**

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**EHD2 Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9NZN4</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=61,46;M=61;R=61 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**EHD2 Antibody (C-term) - Additional Information****Gene ID** 30846**Antigen Region**  
415-449**Other Names**

EH domain-containing protein 2, PAST homolog 2, EHD2, PAST2

**Dilution**

WB~~1:1000

IHC-P~~1:25

**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.

**EHD2 Antibody (C-term) - 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:<a href="http://www.uniprot.org/citations/17233914" target="\_blank">17233914</a>). 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:<a href="http://www.uniprot.org/citations/25588833" target="\_blank">25588833</a>).

### 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

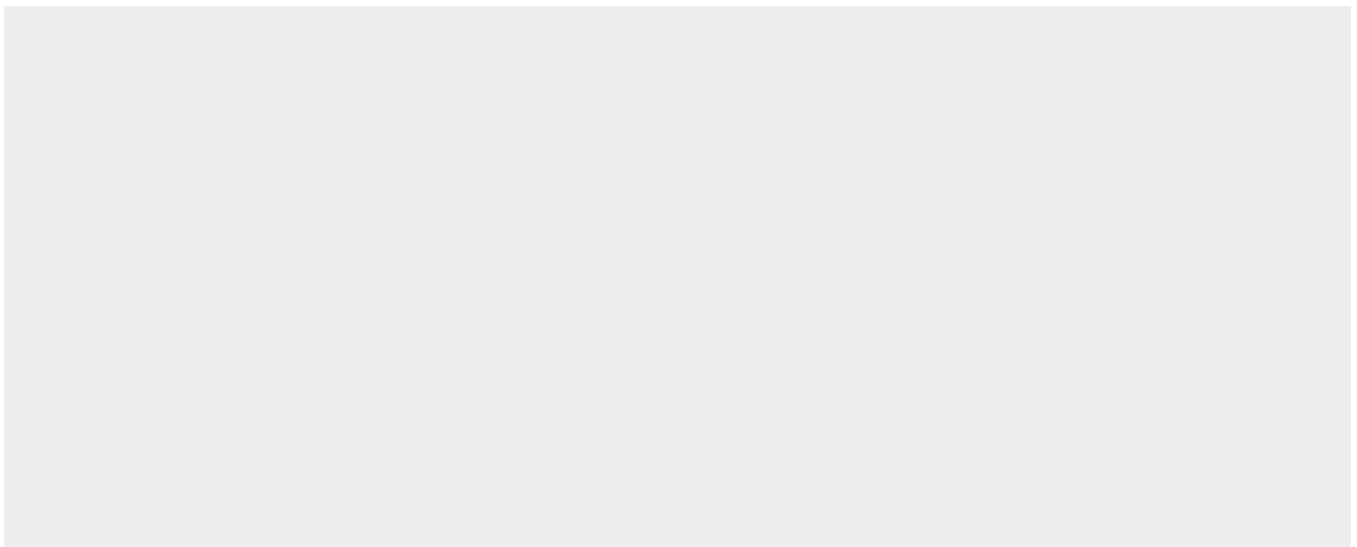
Highly expressed in heart and moderately expressed in placenta, lung, and skeletal muscle.

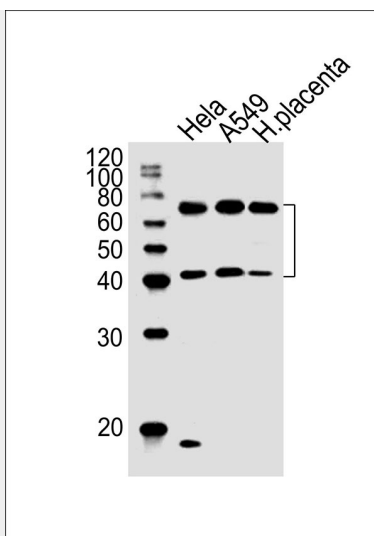
## EHD2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

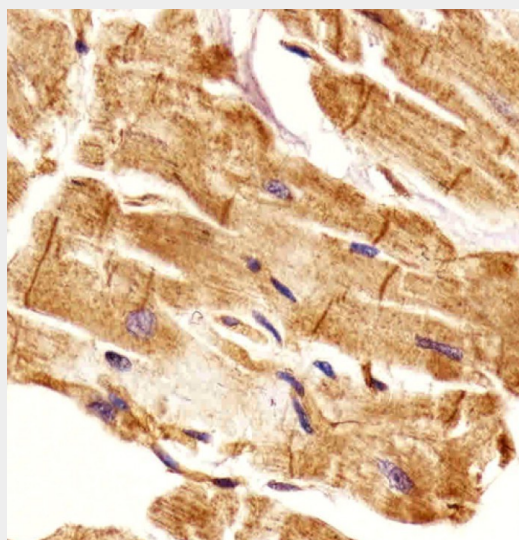
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## EHD2 Antibody (C-term) - Images

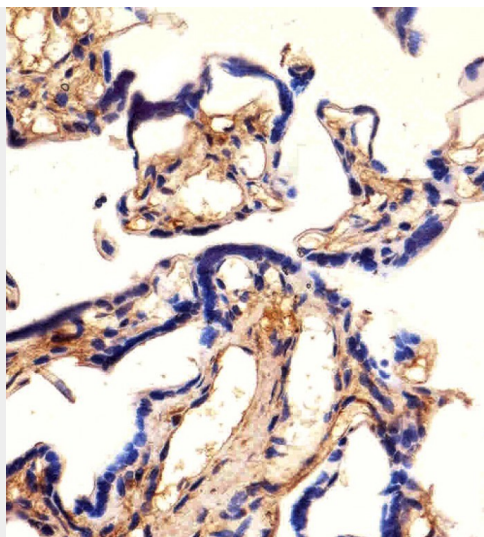




All lanes : Anti-EHD2 Antibody (C-term) at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: A549 whole cell lysates Lane 3: human placenta lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 61 kDa Blocking/Dilution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



Immunohistochemical analysis of paraffin-embedded H. 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.



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.

#### **EHD2 Antibody (C-term) - 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).

#### **EHD2 Antibody (C-term) - 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).