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Testilin / EHD1 Antibody (aa2-15)
Goat Polyclonal Antibody
Catalog # ALS13840

Specification

Testilin / EHD1 Antibody (aa2-15) - Product Information

Application	**IHC**
Primary Accession	Q9H4M9
Reactivity	**Human, Mouse, Rat, Monkey, Pig, Bovine**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**61kDa KDa**

Testilin / EHD1 Antibody (aa2-15) - Additional Information

Gene ID 10938

Other Names
EH domain-containing protein 1, PAST homolog 1, hPAST1, Testilin, EHD1, PAST, PAST1

Target/Specificity
Human EHD1.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
Testilin / EHD1 Antibody (aa2-15) is for research use only and not for use in diagnostic or therapeutic procedures.

Testilin / EHD1 Antibody (aa2-15) - Protein Information

Name EHD1 (HGNC:3242)

Function
ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis. In vitro causes vesiculation of endocytic membranes (PubMed:24019528). Acts in early endocytic membrane fusion and membrane trafficking of recycling endosomes (PubMed:15020713, PubMed:17233914, PubMed:20801876). Recruited to endosomal membranes upon nerve growth factor stimulation, indirectly regulates neurite outgrowth (By similarity). Plays a role in myoblast fusion (By similarity). Involved in the unidirectional retrograde dendritic transport of endocytosed BACE1 and in efficient sorting of BACE1 to axons implicating a function in neuronal APP processing (By similarity). Plays a role in the formation of the ciliary vesicle (CV), an early step in cilium biogenesis. Proposed to be required for the fusion of distal appendage vesicles (DAVs) to form the CV by recruiting SNARE complex

component SNAP29. Is required for recruitment of transition zone proteins CEP290, RPGRIP1L, TMEM67 and B9D2, and of IFT20 following DAV reorganization before Rab8-dependent ciliary membrane extension. Required for the loss of CCP110 form the mother centriole essential for the maturation of the basal body during ciliogenesis (PubMed:25686250).

Cellular Location
Recycling endosome membrane; Peripheral membrane protein; Cytoplasmic side. Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane {ECO:0000250|UniProtKB:Q9WVK4}; Peripheral membrane protein; Cytoplasmic side. Cell projection, cilium membrane; Peripheral membrane protein; Cytoplasmic side. Note=Preferentially associates with tubular recycling endosomes (PubMed:15020713, PubMed:17233914, PubMed:19864458, PubMed:23596323). Colocalizes with FER1L5 at plasma membrane in myoblasts and myotubes (By similarity) Localizes to the ciliary pocket from where the cilium protrudes (PubMed:25686250). Colocalizes with BACE1 in tubulovesicular cytoplasmic membranes. Colocalizes with BACE1 and APP amyloid beta proteins in hippocampal mossy fiber terminals (By similarity) {ECO:0000250|UniProtKB:Q9WVK4, ECO:0000269|PubMed:15020713, ECO:0000269|PubMed:17233914, ECO:0000269|PubMed:19864458, ECO:0000269|PubMed:23596323, ECO:0000269|PubMed:25686250}

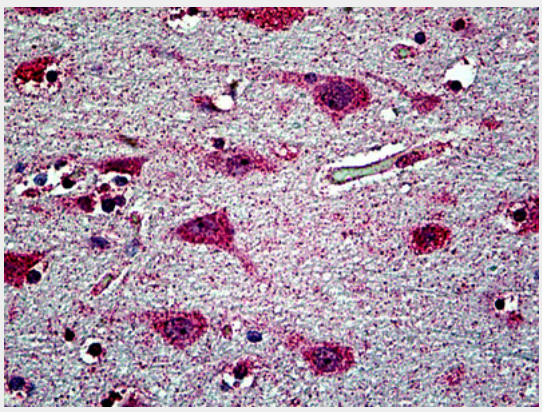
Tissue Location
Highly expressed in testis.

Testilin / EHD1 Antibody (aa2-15) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Testilin / EHD1 Antibody (aa2-15) - Images



Anti-EHD1 antibody IHC of human brain, cortex.

Testilin / EHD1 Antibody (aa2-15) - Background

Acts in early endocytic membrane fusion and membrane trafficking of recycling endosomes. Plays a role in myoblast fusion. Recruited to endosomal membranes upon nerve growth factor stimulation, indirectly regulates neurite outgrowth.

Testilin / EHD1 Antibody (aa2-15) - References

Guru S.C.,et al.Genome Res. 7:725-735(1997).
Mintz L.,et al.Genomics 59:66-76(1999).
Zhou J.,et al.Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).
Naslavsky N.,et al.Mol. Biol. Cell 15:2410-2422(2004).