

Rabbit anti-Human, Rat EHD1 Polyclonal Antibody | anti-EHD1 antibody

EHD1 Antibody

CATALOG # AAA327362	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

EHD1; Polyclonal Antibody; EHD1 Antibody; CDABP0131; EH domain containing 1; EH domain-containing protein 1; EHD1_HUMAN; FLJ42622; FLJ44618; H PAST; hPAST1; PAST; PAST homolog 1; PAST1; Testilin; anti-EHD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EHD1 antibody detects endogenous levels of total EHD1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	534
Applicable Applications for anti-EHD1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EHD1
Subcellular Location	Cell Membrane. Early Endosome Membrane. Recycling Endosome Membrane. Associated with intracellular tubulovesicular structures.
Tissue Specificity	Highly expressed in testis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA327362 at 1/100 staining RAT testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of EHD1 using RAW264.7 whole lysates

ADDITIONAL INFORMATION

Related Product Information for anti-EHD1 antibody	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, RPGRI1L, 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). Subunit Structure: Homooligomer, and heterooligomer with EHD2, EHD3 and EHD4, ATP-binding is required for heterooligomerization (PubMed:16251358, PubMed:17233914, PubMed:18331452). Interacts (via EH domain) with MICALL1 (via NPF1 motif); the interaction is direct and recruits EHD1 to membranes (PubMed:19864458, PubMed:20106972). Interacts with RAB35; the interaction is indirect through MICALL1 and recruits EHD1 to membranes (By similarity). Interacts (via EH domain) with PACSIN2 (via NPF motifs); regulates localization to tubular recycling endosome membranes (PubMed:23596323). Interacts with PACSIN1 (By similarity). Interacts with RAB8A (PubMed:19864458). Interacts with FER1L5 (via second C2 domain) (By similarity). Interacts with MYOF (By similarity). Interacts with ZFYVE20 (PubMed:15020713). Interacts (via EH domain) with RAB11FIP2 (PubMed:16251358). Similarity: The EH domain interacts with Asn-Pro-Phe (NPF) motifs of target proteins. Belongs to the TRAFAC class dynamin-like GTPase superfamily. Dynamin/Fzo/YdjA family. EHD subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	540344515
NCBI GeneID	10938
NCBI Accession #	NP_001269373.1
NCBI GenBank Nucleotide #	NM_001282444.1
UniProt Accession #	Q9H4M9; O14611; Q2M3Q4; Q9UNR3
Molecular Weight	Observed: 61 kDa Predicted: 61 kDa
NCBI Official Full Name	EH domain-containing protein 1 isoform 1
NCBI Official Synonym Full Names	EH domain containing 1
NCBI Official Symbol	EHD1
NCBI Official Synonym Symbols	PAST; PAST1; H-PAST; HPAST1
NCBI Protein Information	EH domain-containing protein 1
UniProt Protein Name	EH domain-containing protein 1
UniProt Gene Name	EHD1
UniProt Synonym Gene Names	PAST1 PublicationManual assertion based on opinion iniRef.1; hPAST11 PublicationManual assertion based on opinion iniRef.1

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