EHD2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	EHD2, Monoclonal Antibody
Full Product Name	EHD2 (EH Domain Containing 2, FLJ96617, PAST2) (Azide Free) (MaxLight 405)
Product Gene Name	anti-EHD2 antibody
Product Synonym Names	EH-domain Containing Protein 2
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	10C43
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation
Specificity	Recognizes human EHD2 at ~61kD.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	605890
3D Structure	ModBase 3D Structure for Q9NZN4
Immunogen	Recombinant protein corresponding to a portion of amino acids within aa365-428 of human EHD20 (GST tag) (NP_055416).
Conjugate	MaxLight405
Product Categories/Family for anti-EHD2 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-EHD2 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-EHD2 antibody	WB: 1:500-1:1000 FLISA: 1ug/ml-3ng/ml Applications are based on unconjugated antibody.
Related Product Information for anti-EHD2 antibody	MBS6188317 is an antibody targeting EHD2. Also known as EHD2 (EH Domain Containing 2, FLJ96617, PAST2) (Azide Free) (MaxLight 405). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-EHD2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EHD2. It may not necessarily be applicable to this product.

NCBI GI #	21361462

NCBI GeneID	30846
NCBI Accession #	NP_055416
UniProt Primary Accession #	Q9NZN4
UniProt Related Accession #	Q9NZN4
GenBank Nucleotide #	NP_055416.2
NCBI Official Full Name	EH domain-containing protein 2
NCBI Official Synonym Full Names	EH domain containing 2
NCBI Official Symbol	EHD2
NCBI Official Synonym Symbols	PAST2
UniProt Protein Name	EH domain-containing protein 2
UniProt Synonym Protein Names	PAST homolog 2
Protein Family	EH domain-containing protein
UniProt Gene Name	EHD2
UniProt Synonym Gene Names	PAST2
UniProt Entry Name	EHD2_HUMAN
NCBI Protein Information	EH domain-containing protein 2
NCBI Summary for EHD2	This gene encodes a member of the EH domain-containing protein family. These proteins are characterized by a C-terminal EF-hand domain, a nucleotide-binding consensus site at the N terminus and a bipartite nuclear localization signal. The encoded protein interacts with the actin cytoskeleton through an N-terminal domain and also binds to an EH domain-binding protein through the C-terminal EH domain. This interaction appears to connect clathrin-dependent endocytosis to actin, suggesting that this gene product participates in the endocytic pathway. [provided by RefSeq, Jul 2008]
UniProt Comments for EHD2	EHD2: 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. Binds ATP; does not bind GTP. Protein type: Vesicle Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: recycling endosome membrane; perinuclear region of cytoplasm; plasma membrane; endosome membrane; caveola; nucleus Molecular Function: protein domain specific binding; protein binding; nucleic acid binding; GTP binding; hydrolase activity; calcium ion binding; ATP binding Biological Process: metabolic process; endocytosis; cortical actin cytoskeleton organization and biogenesis; endocytic recycling; blood coagulation
Research Articles on EHD2	**1.** EHD2-controlled caveolar dynamics orchestrates the activity and regulation of eNOS/nitric oxide and Ca2+ channel localization at the plasma membrane.
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