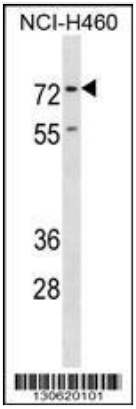
ENAH Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ENAH, Polyclonal Antibody
Full Product Name	ENAH, CT (ENAH, MENA, Protein enabled homolog) (APC)
Product Gene Name	anti-ENAH antibody
Product Synonym Names	ENAH; MENA; Protein enabled homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	609061
3D Structure	ModBase 3D Structure for Q8N8S7
Immunogen	ENAH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 446-475 amino acids from the C-terminal region of human ENAH.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ENAH antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-ENAH antibody	Western Blot (WB), FLISA
Application Notes for anti-ENAH antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ENAH antibody	Ena/VASP proteins are actin-associated proteins involved in a range of processes dependent on cytoskeleton remodeling and cell polarity such as axon guidance and lamellipodial and filopodial dynamics in migrating cells. ENAH induces the formation of F-actin rich outgrowths in fibroblasts. Acts synergistically with BAIAP2-alpha and downstream of NTN1 to promote filipodia formation. Required for the actin-based mobility of Listeria monocytogenes (By similarity).
Product References and Citations for anti-ENAH antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Chattopadhyay, I., et al. Mutat. Res. 696(2):130-138(2010). Hahn, W.H., et al. Exp. Mol. Med. 41(11):793-801(2009). Gurzu, S., et al. Rom J Morphol Embryol 50(2):213-216(2009). Higashi, M., et al. PLoS ONE 4 (3), E4765 (2009).
Other Notes	Small volumes of anti-ENAH 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.

Searchable Terms for ENAH purchase	MBS6295524 is an antibody targeting ENAH. Also known as ENAH, CT (ENAH, MENA, Protein enabled homolog) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ENAH antibody
ENAH Antibody (C-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the ENAH antibody detected the ENAH protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	39930375
NCBI GeneID	55740
NCBI Accession #	NP_060682.2
UniProt Primary Accession #	Q8N8S7
UniProt Related Accession #	Q8N8S7
GenBank Nucleotide #	NP_060682.2
NCBI Official Full Name	protein enabled homolog isoform b
NCBI Official Synonym Full Names	ENAH actin regulator
NCBI Official Symbol	ENAH
NCBI Official Synonym Symbols	ENA; MENA; NDPP1
UniProt Protein Name	Protein enabled homolog
Protein Family	Protein enabled
UniProt Gene Name	ENAH
UniProt Synonym Gene Names	MENA
UniProt Entry Name	ENAH_HUMAN
NCBI Protein Information	protein enabled homolog
NCBI Summary for ENAH	This gene encodes a member of the enabled/ vasodilator-stimulated phosphoprotein. Members of this gene family are involved in actin-based motility. This protein is involved in regulating the assembly of actin filaments and modulates cell adhesion and motility. Alternate splice variants of this gene have been correlated with tumor invasiveness in certain tissues and these variants may serve as prognostic markers. A pseudogene of this gene is found on chromosome 3. [provided by RefSeq, Sep 2016]

UniProt Comments for ENAH	Mena: Ena/VASP proteins are actin-associated proteins involved in a range of processes dependent on cytoskeleton remodeling and cell polarity such as axon guidance and lamellipodial and filopodial dynamics in migrating cells. ENAH induces the formation of F-actin rich outgrowths in fibroblasts. Acts synergistically with BAIAP2-alpha and downstream of NTN1 to promote filipodia formation. Required for the actin-based mobility of Listeria monocytogenes. Homotetramer. Interacts with APBB1IP, APBB1, PFN1 and ROBO4. Isoforms, containing the polyproline-rich regions with PPLP motifs, bind the WW domain of APBB1IP. Isoforms, containing the PPSY motif, bind, in vitro, to the WW2 and WW3 domains of NEDD4 and to the WW1 domain of YAP1. Binds the SH3 domain of BAIAP2-alpha but only after the autoinhibitory region of BAIAP2-alpha has been blocked by interaction with CDC42. Interacts, via the EVH1/WH1 domain, with the Pro-rich domains from VCL, ZYX and Listeria monocytogenes actA and with TES (via LIM domains). The TES LIM domain and the Pro-rich domains from VCL or ZYX compete for the same binding site. Interaction with ZYX is important for targeting ENAH to focal adhesions and enhances production of actin-rich structures at the apical surface of cells. Interacts, through the Pro-rich region, with the C-terminal SH3 domain of DNMPB. Binds GPHN. Interacts with FAT1 (via EVH1 domains). Heterotrimer with TES and ACTL7A. Expressed in myoepithelia of parotid, breast, bronchial glands and sweat glands. Expressed in colon-rectum muscolaris mucosae epithelium, pancreas acinar ductal epithelium, endometrium epithelium, prostate fibromuscolar stroma and placenta vascular media. Overexpressed in a majority of breast cancer cell lines and primary breast tumor lesions. Belongs to the Ena/VASP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Adaptor/scaffold Chromosomal Location of Human Ortholog: 1q42.12 Cellular Component: focal adhesion; lamellipodium; cytoplasm; stress fiber; plasma membrane; synapse; cytosol; cell junction; filopodium Molecular Function: protein binding; WW domain binding; actin binding; SH3 domain binding Biological Process: axon guidance; intracellular transport; actin polymerization and/or depolymerization; neural tube closure; T cell receptor signaling pathway
Research Articles on ENAH	**1.** Enah is upregulated in gastric cancer tissues and cell lines and is correlated with clinicopathological parameters and survival of gastric cancer patients.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/enah/6295524