

#### **EHHADH Antibody**

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51182

### **Specification**

#### **EHHADH Antibody - Product Information**

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

WB, IHC-P, E
O08426
Human, Mouse, Rat
Rabbit
Polyclonal
79 KDa

## **EHHADH Antibody - Additional Information**

#### **Gene ID** 1962

#### **Other Names**

Peroxisomal bifunctional enzyme, PBE, PBFE, Enoyl-CoA hydratase/3, 2-trans-enoyl-CoA isomerase, 3-hydroxyacyl-CoA dehydrogenase, EHHADH, ECHD

#### Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EHHADH. The exact sequence is proprietary.

#### **Dilution**

WB~~1:1000 IHC-P~~N/A E~~N/A

#### **Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

#### **Storage**

Store at -20 °C.Stable for 12 months from date of receipt

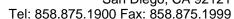
## **EHHADH Antibody - Protein Information**

Name EHHADH (HGNC:3247)

# **Synonyms** ECHD

#### **Function**

Peroxisomal trifunctional enzyme possessing 2-enoyl-CoA hydratase, 3-hydroxyacyl-CoA dehydrogenase, and delta 3, delta 2-enoyl- CoA isomerase activities. Catalyzes two of the four reactions of the long chain fatty acids peroxisomal beta-oxidation pathway (By similarity). Can also use branched-chain fatty acids such as 2-methyl- 2E-butenoyl-CoA as a substrate, which is hydrated into (2S,3S)-3- hydroxy-2-methylbutanoyl-CoA (By similarity). Optimal isomerase for 2,5





double bonds into 3,5 form isomerization in a range of enoyl-CoA species (Probable). Also able to isomerize both 3-cis and 3-trans double bonds into the 2-trans form in a range of enoyl-CoA species (By similarity). With HSD17B4, catalyzes the hydration of trans-2-enoyl-CoA and the dehydrogenation of 3-hydroxyacyl-CoA, but with opposite chiral specificity (PubMed: <a href="http://www.uniprot.org/citations/15060085" target="\_blank">15060085</a>). Regulates the amount of medium-chain dicarboxylic fatty acids which are essential regulators of all fatty acid oxidation pathways (By similarity). Also involved in the degradation of long-chain dicarboxylic acids through peroxisomal beta-oxidation (PubMed:<a

href="http://www.uniprot.org/citations/15060085" target=" blank">15060085</a>).

## **Cellular Location**

Peroxisome.

#### **Tissue Location**

Liver and kidney. Strongly expressed in the terminal segments of the proximal tubule. Lower amounts seen in the brain.

### **EHHADH Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **EHHADH Antibody - Images**

## **EHHADH Antibody - References**

Hoefler G., et al. Genomics 19:60-67(1994).

Cherkaoui-Malki M., et al. Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.

Ota T., et al. Nat. Genet. 36:40-45(2004).

Totoki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBI databases.

Muzny D.M., et al. Nature 440:1194-1198(2006).