

# EHHADH Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51182

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">Q08426</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 79495                  |

## 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 |
| Dilution    | WB~~1:1000 IHC-P~~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   |

## Protein Information

|          |   |
|----------|---|
| Name     | EHHADH ( <a href="#">HGNC:3247</a> )  |
| Synonyms | ECHD  |
| Function | <p>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="#">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</p> |

peroxisomal beta- oxidation (PubMed:[15060085](#)).

**Cellular Location**

Peroxisome.

**Tissue Location**

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

## References

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

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