

PBFE Polyclonal Antibody
Catalog # AP71793**Specification****PBFE Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	Q08426
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal

PBFE Polyclonal Antibody - Additional Information**Gene ID** 1962**Other Names**

EHHADH; ECHD; Peroxisomal bifunctional enzyme; PBE; PBFE

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

PBFE Polyclonal 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:15060085). 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:15060085).

Cellular Location

Peroxisome.

Tissue Location

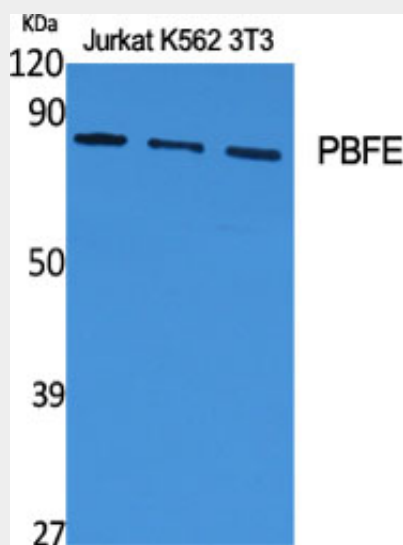
Liver and kidney. Strongly expressed in the terminal segments of the proximal tubule. Lower amounts seen in the brain.

PBFE Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PBFE Polyclonal Antibody - Images



Western Blot analysis of various cells using PBFE Polyclonal Antibody



Western Blot analysis of A549 cells using PBFE Polyclonal Antibody