

ECH1 Rabbit pAb

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Catalog # AP55048

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q13011
Reactivity	Mouse
Predicted	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35816
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ECH1
Epitope Specificity	21-120/328
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion. Peroxisome.
SIMILARITY	Belongs to the enoyl-CoA hydratase/isomerase family.
SUBUNIT	Homohexamer
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ECH1 is a 328 amino acid protein that localizes to both the mitochondrion and the peroxisome and belongs to the hydratase/isomerase superfamily. Existing as a homohexamer, ECH1 is involved in the fatty acid-beta oxidation pathway, specifically functioning to catalyze the isomerization of 3-trans,5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA. The gene encoding ECH1 maps to human chromosome 19, which is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs).

Additional Information

Gene ID	1891
Other Names	Delta(3, 5)-Delta(2, 4)-dienoyl-CoA isomerase, mitochondrial, 5.3.3.-, ECH1 (HGNC:3149)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

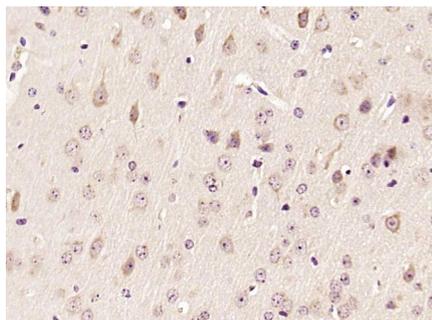
Protein Information

Name	ECH1 (HGNC:3149)
Function	Isomerization of 3-trans,5-cis-dienoyl-CoA (3E,5Z-dienoyl- CoA) to 2-trans,4-trans-dienoyl-CoA (2E,4E-dienoyl-CoA), a crucial step in the beta-oxidation of unsaturated fatty acids with double bonds at odd position.
Cellular Location	Mitochondrion {ECO:0000250 UniProtKB:Q62651}. Peroxisome {ECO:0000250 UniProtKB:Q62651}

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ECH1) Polyclonal Antibody, Unconjugated (AP55048) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.