

## Datasheet for ABIN2781318 anti-ECH1 antibody (N-Term)



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### Overview

Quantity:	100 µL
Target:	ECH1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Guinea Pig, Rabbit, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ECH1 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ECH1
Sequence:	PDHSYESLRV TSAQKHVLHV QLNRPNKRNA MNKVFWREMV ECFNKISRDA
Predicted Reactivity:	Cow: 100%, Dog: 92%, Guinea Pig: 100%, Human: 100%, Mouse: 100%, Rabbit: 86%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against ECH1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

### Target Details

Target:	ECH1
Alternative Name:	ECH1 ( <a href="#">ECH1 Products</a> )

## Target Details

Background:	<p>ECH1 is a member of the hydratase/isomerase superfamily. ECH1 shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. The protein contains a C-terminal peroxisomal targeting sequence, localizes to the peroxisome. This enzyme functions in the auxiliary step of the fatty acid beta-oxidation pathway. This gene encodes a member of the hydratase/isomerase superfamily. The gene product shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. The encoded protein, which contains a C-terminal peroxisomal targeting sequence, localizes to the peroxisome. The rat ortholog, which localizes to the matrix of both the peroxisome and mitochondria, can isomerize 3-trans,5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA, indicating that it is a delta3,5-delta2,4-dienoyl-CoA isomerase. This enzyme functions in the auxiliary step of the fatty acid beta-oxidation pathway. Expression of the rat gene is induced by peroxisome proliferators.</p> <p>Alias Symbols: HPXEL</p> <p>Protein Interaction Partner: FAM9B, HUWE1, TRAF1, UBC, MDM2, PPP6R3, IQCB1, STAT3, PEX5, EEF1D, DNAJB11, HNRNPUL1, OPA1, APP, HTT, EEF1G, HDAC5, ICT1, TLR10, PAFAH1B3, SERPINB9, CSTF2, TIMP1,</p> <p>Protein Size: 328</p>
Molecular Weight:	36 kDa
Gene ID:	1891
NCBI Accession:	<a href="#">NM_001398</a> , <a href="#">NP_001389</a>
UniProt:	<a href="#">Q13011</a>
Pathways:	<a href="#">Monocarboxylic Acid Catabolic Process</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 328 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific

## Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in:	Spellman, Ahmed, Dubach, Gardiner: "Expression of trisomic proteins in Down syndrome model systems." in: <b>Gene</b> , Vol. 512, Issue 2, pp. 219-25, (2012) ( <a href="#">PubMed</a> ).
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## Images



### Western Blotting

**Image 1.** WB Suggested Anti-ECH1 Antibody Titration: 2.5ug/ml Positive Control: HepG2 cell lysate ECH1 is supported by BioGPS gene expression data to be expressed in HepG2