

## Rabbit anti-Human ECH1 Polyclonal Antibody | anti-ECH1 antibody

Anti-ECH1 Antibody, Rabbit Polyclonal

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                   |
|-----------|--------|------------|----------------------------------------------------------------|
| AAA255768 | Rabbit | Human      | Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot |

### PRODUCT SYNONYMS

ECH1; Polyclonal Antibody; Anti-ECH1 Antibody; Rabbit Polyclonal; ECH1 Antibody; Rabbit PAb; Antigen Affinity Purified; enoyl CoA hydratase 1; peroxisomal; Anti-HPXEL Antibody; anti-ECH1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                    | Human ECH1                                                                                                                                                                                                                                                            |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-ECH1 antibody | IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                                                                        |
| Immunogen                                      | Recombinant Human ECH1 protein                                                                                                                                                                                                                                        |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                    | Produced in rabbits immunized with purified, recombinant Human ECH1 (rh ECH1). ECH1 specific IgG was purified by Human ECH1 affinity chromatography.                                                                                                                  |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### WB (Western Blot)

Anti-ECH1 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 36 kDa Observed band size: 34 kDa



#### IP (Immunoprecipitation)

ECH1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 2 uL anti-ECH1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-ECH1 rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 34 kDa Observed band size: 34 kDa

**IHC (Immunohistochemistry)**

Immunochemical staining of human ECH1 in human liver (cirrhosis) with rabbit polyclonal antibody (1:10000, formalin-fixed paraffin embedded sections). Positive staining was localized to cytoplasm of hepatocyte

**IHC (Immunohistochemistry)**

Immunochemical staining of human ECH1 in human prostate with rabbit polyclonal antibody (1:10000, formalin-fixed paraffin embedded sections).

**ADDITIONAL INFORMATION**

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-ECH1 antibody</b> | ECH1 is a member of the hydratase/isomerase superfamily. ECH1 shows high sequence similarity to enoyl-CoA hydratases of several species, particularly within a conserved domain characteristic of these proteins. ECH1 contains a C-terminal peroxisomal targeting sequence and localizes to peroxisomes. 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. ECH1 functions in the auxiliary step of the fatty acid beta-oxidation pathway. Expression of the rat gene is induced by peroxisome proliferators. |
| <b>References</b>                                         | Kovalyov LI, et al. (2006) Polymorphism of delta3, 5-delta2, 4-dienoyl-coenzyme A isomerase (the ECH1 gene product protein) in human striated muscle tissue. <i>Biochemistry Mosc.</i> 71(4): 448-53. Olsen JV, et al. (2006) Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. <i>Cell.</i> 127(3):635-48. FitzPatrick DR, et al. (1995) Isolation and characterization of rat and human cDNAs encoding a novel putative peroxisomal enoyl-CoA hydratase. <i>Genomics.</i> 27(3):457-66.                                                                                                                                                                        |

**NCBI AND UNIPROT INFORMATION**

|                                         |                                                                                                                                                                                                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">70995211</a>                                                                                                                                                                                                                      |
| <b>NCBI GeneID</b>                      | <a href="#">1891</a>                                                                                                                                                                                                                          |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001389.2</a>                                                                                                                                                                                                                   |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001398.2</a>                                                                                                                                                                                                                   |
| <b>UniProt Accession #</b>              | <a href="#">Q13011</a> ; <a href="#">Q8WVX0</a> ; <a href="#">Q96EZ9</a> ; <a href="#">A8K745</a>                                                                                                                                             |
| <b>Molecular Weight</b>                 | 35,816 Da                                                                                                                                                                                                                                     |
| <b>NCBI Official Full Name</b>          | delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial                                                                                                                                                                                    |
| <b>NCBI Official Synonym Full Names</b> | enoyl CoA hydratase 1, peroxisomal                                                                                                                                                                                                            |
| <b>NCBI Official Symbol</b>             | ECH1                                                                                                                                                                                                                                          |
| <b>NCBI Official Synonym Symbols</b>    | HPXEL                                                                                                                                                                                                                                         |
| <b>NCBI Protein Information</b>         | delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial; delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial; delta3,5-delta2,4-dienoyl-CoA isomerase; enoyl Coenzyme A hydratase 1, peroxisomal; peroxisomal enoyl-CoA hydratase 1 |
| <b>UniProt Protein Name</b>             | Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial                                                                                                                                                                                    |
| <b>UniProt Gene Name</b>                | <b>ECH1</b>                                                                                                                                                                                                                                   |
| <b>UniProt Entry Name</b>               | ECH1_HUMAN                                                                                                                                                                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ech1-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255768>