

## ECH1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ECH1.

Catalog # AT1848a

### Product Information

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|                   |                           |
|-------------------|---------------------------|
| Application       | WB                        |
| Primary Accession | <a href="#">Q13011</a>    |
| Other Accession   | <a href="#">NM_001398</a> |
| Reactivity        | Human                     |
| Host              | mouse                     |
| Clonality         | monoclonal                |
| Isotype           | IgG2b Kappa               |
| Clone Names       | 5G8                       |
| Calculated MW     | 35816                     |

### Additional Information

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|                    |  |
|--------------------|--|
| Gene ID            | 1891   |
| Other Names        | Delta(3, 5)-Delta(2, 4)-dienoyl-CoA isomerase, mitochondrial, 533-, ECH1   |
| Target/Specificity | ECH1 (NP_001389, 21 a.a. ~ 120 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.   |
| Dilution           | WB~~1:500~1000   |
| Format             | Clear, colorless solution in phosphate buffered saline, pH 7.2 .   |
| Storage            | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.   |
| Precautions        | ECH1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

### Background

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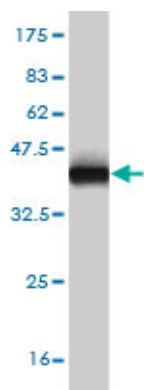
This gene encodes a member of the hydratase/isomerase superfamily. The gene product shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. The encoded protein, which contains a C-terminal peroxisomal 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.

### References

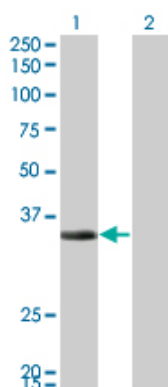
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Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348. Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983. Polymorphism of delta3,5-delta2,4-dienoyl-coenzyme A isomerase (the ECH1 gene product protein) in human striated muscle tissue. Kovalyov LI, et al. Biochemistry (Mosc), 2006 Apr. PMID 16615866. Binding specificity of Toll-like receptor cytoplasmic domains. Brown V, et al. Eur J Immunol, 2006 Mar. PMID 16482509. A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.

## Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of ECH1 expression in transfected 293T cell line by ECH1 monoclonal antibody (M01), clone 5G8.

Lane 1: ECH1 transfected lysate (35.8 KDa).  
Lane 2: Non-transfected lysate.

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