

**ECH1 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant ECH1.****Catalog # AT1848a****Specification**

---

**ECH1 Antibody (monoclonal) (M01) - Product Information**

Application	WB
Primary Accession	<a href="#">Q13011</a>
Other Accession	<a href="#">NM_001398</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	35816

**ECH1 Antibody (monoclonal) (M01) - Additional Information****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.

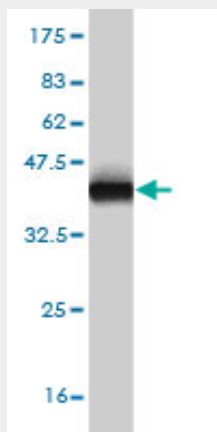
**ECH1 Antibody (monoclonal) (M01) - Protocols**

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

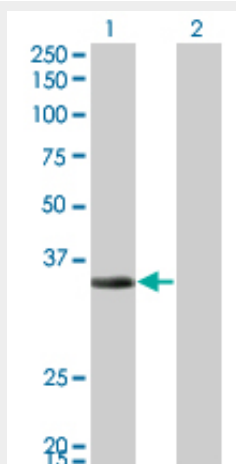
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ECH1 Antibody (monoclonal) (M01) - 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.

### ECH1 Antibody (monoclonal) (M01) - Background

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.

**ECH1 Antibody (monoclonal) (M01) - References**

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.