Datasheet for ABIN7599813

anti-ECHS1 antibody (AA 12-290)

Go to Product page

Overview

Quantity:	100 µg
Target:	ECHS1
Binding Specificity:	AA 12-290
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ECHS1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ECHS1 Antibody Picoband®
Immunogen:	E.coli-derived human ECHS1 recombinant protein (Position: R12-Q290).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ECHS1 Antibody Picoband® (ABIN7599813). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ECHS1
Alternative Name:	ECHS1 (ECHS1 Products)
Background:	Synonyms: Vascular endothelial growth factor B, VEGF-B, VEGF-related factor, VRF, VEGFB, VRF Tissue Specificity: Expressed in all tissues except liver. Highest levels found in heart, skeletal muscle and pancreas. Background: Enoyl Coenzyme A hydratase, short chain, 1, mitochondrial, also known as ECHS1, is a human gene. The protein encoded by this gene functions in the second step of the mitochondrial fatty acid beta-oxidation pathway. It catalyzes the hydration of 2-trans-enoyl-coenzyme A (CoA) intermediates to L-3-hydroxyacyl-CoAs. The gene product is a member of the hydratase/isomerase superfamily. It localizes to the mitochondrial matrix. Transcript variants utilizing alternative transcription initiation sites have been described in the literature.
Molecular Weight:	29 kDa
Gene ID:	1892
UniProt:	P30084
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Fitzsimons, P. E., Alston, C. L., Bonnen, P. E., Hughes, J., Crushell, E., Geraghty, M. T., Tetreault, M., O'Reilly, P., Twomey, E., Sheikh, Y., Walsh, R., Waterham, H. R., Ferdinandusse, S., Wanders, R. J. A., Taylor, R. W., Pitt, J. J., Mayne, P. D. Clinical, biochemical, and genetic features of four patients with short-chain enoyl-CoA hydratase (ECHS1) deficiency. Am. J. Med. Genet. 176A: 1115-1127, 2018. 2. Haack, T. B., Jackson, C. B., Murayama, K., Kremer, L. S., Schaller, A., Kotzaeridou, U., de Vries, M. C., Schottmann, G., Santra, S., Buchner, B., Wieland, T., Graf, E., and 28 others. Deficiency of ECHS1 causes mitochondrial encephalopathy with cardiac involvement. Ann. Clin. Transl. Neurol. 2: 492-509, 2015. 3. Janssen, U., Davis, E. M., Le Beau, M. M., Stoffel, W. Human mitochondrial enoyl-CoA hydratase gene (ECHS1): structural

Application Details

	organization and assignment to chromosome 10q26.2-q26.3. Genomics 40: 470-475, 1997.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.

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