

Rabbit anti-Human ECHS1 Polyclonal Antibody | anti-ECHS1 antibody

Anti-ECHS1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256158	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ECHS1; Polyclonal Antibody; Anti-ECHS1 Antibody; Rabbit Polyclonal; ECHS1 Antibody; Rabbit PAb; Antigen Affinity Purified; enoyl CoA hydratase; short chain; 1; mitochondrial; Anti-ECHS1D Antibody; Anti-SCEH Antibody; anti-ECHS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human ECHS1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-ECHS1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human ECHS1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human ECHS1 fragment, and purified by antigen 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. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

ECHS1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 HeLa Whole Cell Lysate, 4 uL anti-ECHS1 rabbit polyclonal antibody and 60 ug of Immnomagnetic beads Protein A/G. Primary antibody: Anti-ECHS1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 31 kDa. Observed band size: 28 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of ECHS1 in U2OS cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human ECHS1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



IHC (Immunohistochemistry)

Immunochemical staining of human ECHS1 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-ECHS1 rabbit polyclonal antibody at 1:500 dilution Lane A: MCF7 Whole Cell Lysate Lane B: HeLa Whole Cell Lysate Lane C: 293T Whole Cell Lysate Lane D: HepG Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 31 kDa Observed band size: 31 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-ECHS1 antibody

Overexpression of ECHS1 occurs in different cancers, including hepatocellular carcinoma (HCC). The coexistence of HBs and ECHS1 enhances HepG2 cell apoptosis, affects ECHS1 localization in the mitochondria and induces apoptosis by decreasing the mitochondrial membrane potential (MMP). These findings suggest that ECHS1 may be applied as a potential therapeutic target during the treatment of HBV-related hepatitis or HCC. The human ECHS1 gene encodes the short-chain enoyl coenzyme A hydratase, the enzyme that catalyzes the second step of beta-oxidation of fatty acids in the mitochondrial matrix. ECHS1 protein expression was severely depleted in the patient's skeletal muscle and patient-derived myoblasts. Short-chain enoyl-CoA hydratase (ECHS1) is a multifunctional mitochondrial matrix enzyme that is involved in the oxidation of fatty acids and essential amino acids such as valine. Silencing ECHS1 to attenuate proliferation and induce autophagy may make it a novel cancer therapy target.

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/echs1-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/256158>