

## Basic Information

Product Name	Anti-ACOX1 Antibody	
Gene Name	ACOX1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human ACOX1 recombinant protein (Position: A605-E648). Human ACOX1 shares 93.2% and 90.9% amino acid (aa) sequence identity with mouse and rat ACOX1, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	74, 22 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

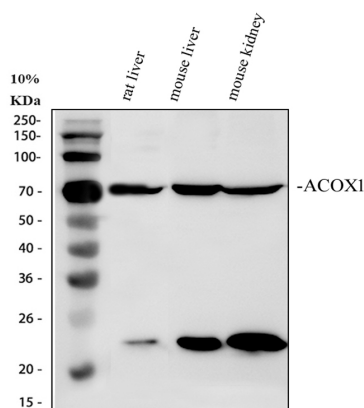
12 months from date of receipt, -20°C as supplied.

## Background Information

The protein encoded by this gene is the first enzyme of the fatty acid beta-oxidation pathway, which catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. It donates electrons directly to molecular oxygen, thereby producing hydrogen peroxide. Defects in this gene result in pseudoneonatal adrenoleukodystrophy, a disease that is characterized by accumulation of very long chain fatty acids. Alternatively spliced transcript variants encoding different isoforms have

been identified.

## Selected Validation Data



Western blot analysis of ACOX1 using anti-ACOX1 antibody

(A03054-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

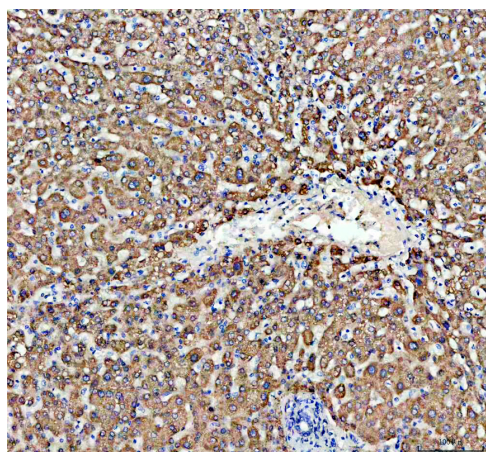
Lane 1: rat liver tissue lysates,

Lane 2: mouse liver tissue lysates,

Lane 3: mouse kidney tissue lysates.

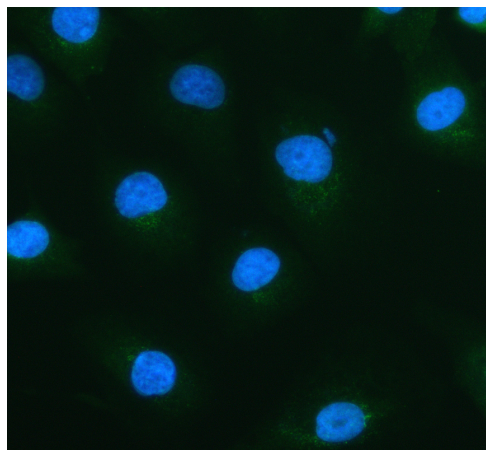
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-ACOX1 antigen A03957-Aen affinity purified polyclonal antibody (A03054-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ACOX1 at approximately 74, 22 kDa. The expected band size for ACOX1 is at 74 kDa.



IHC analysis of ACOX1 using anti-ACOX1 antibody (A03054-1).

ACOX1 was detected in a paraffin-embedded section of human liver cancer tissue. The tissue section was incubated with rabbit anti-ACOX1 Antibody (A03054-1) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of ACOX1 using anti-ACOX1 antibody (A03054-1). ACOX1 was detected in an immunocytochemical section of A549 cells. The section was incubated with rabbit anti-ACOX1 Antibody (A03054-1) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).