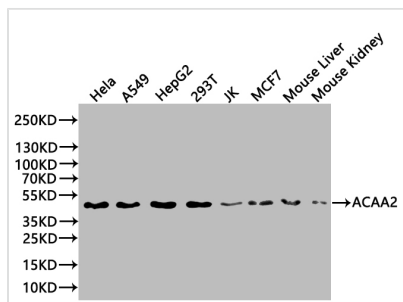




# ACAA2 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA978277A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P42765
<b>Immunogen</b>	A synthesized peptide derived from human ACAA2
<b>Species Reactivity</b>	Human, Mouse
<b>Tested Applications</b>	ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:2000, IHC:1:50-1:200, IF:1:10-1:100
<b>Relevance</b>	<p>In the production of energy from fats, this is one of the enzymes that catalyzes the last step of the mitochondrial beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA (Probable). Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain unbranched 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms (Probable). Also catalyzes the condensation of two acetyl-CoA molecules into acetoacetyl-CoA and could be involved in the production of ketone bodies (Probable). Also displays hydrolase activity on various fatty acyl-CoAs (PubMed:25478839). Thereby, could be responsible for the production of acetate in a side reaction to beta-oxidation (Probable). Abolishes BNIP3-mediated apoptosis and mitochondrial damage (PubMed:18371312). {ECO:0000269 PubMed:18371312, ECO:0000269 PubMed:25478839, ECO:0000305 PubMed:25478839}.</p>
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cardiovascular; Tags & Cell Markers; Metabolism; Signal transduction
<b>Target Names</b>	ACAA2
<b>Clone No.</b>	12F4
<b>Image</b>	

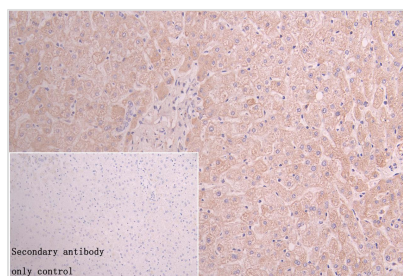


**Western Blot**

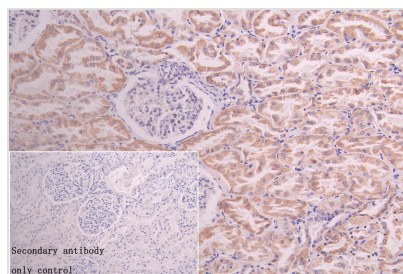
Positive WB detected in: HeLa whole cell lysate(20µg), A549 whole cell lysate(20µg), HepG2 whole cell lysate(20µg), 293T whole cell lysate(20µg), MCF7 whole cell lysate(20µg), JK whole cell lysate(20µg), Mouse Liver tissue lysate(20µg), Mouse Kidney tissue lysate(20µg)  
All lanes: ACAA2 antibody at 1:1000

**Secondary**

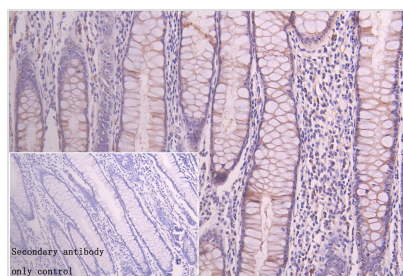
Goat polyclonal to rabbit IgG at 1/50000 dilution  
Predicted band size: 42 kDa  
Observed band size: 42 kDa  
Exposure time: 10s



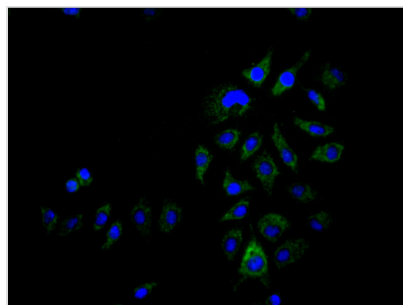
IHC image of CSB-RA978277A0HU diluted at 1:150 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody



IHC image of CSB-RA978277A0HU diluted at 1:150 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody



IHC image of CSB-RA978277A0HU diluted at 1:150 and staining in paraffin-embedded human colorectal cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody



Immunofluorescence staining of HeLa cell with CSB-RA978277A0HU at 1:12, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

**Usage**

For Research Use Only. Not for use in diagnostic or therapeutic procedures.