

Product Name: KD-Validated PCCA Mouse Monoclonal Antibody**Catalog #: KVA00036**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 80.1kDa

Antigen Information

Gene Name	PCCA
Alternative Names	PCCA; Propionyl-CoA Carboxylase Subunit Alpha; Propionyl-CoA Carboxylase Alpha Chain, Mitochondrial; Propionyl Coenzyme A Carboxylase, Alpha Polypeptide; EC 6.4.1.3; Propanoyl-CoA:Carbon Dioxide Ligase Alpha Subunit; Propanoyl-CoA:Carbon Dioxide Ligase Subunit Alpha; Propionyl CoA Carboxylase, Alpha Polypeptide; Propionyl-CoA Carboxylase Alpha Subunit; PccA Complementation Group; PCCase Alpha Subunit; PCCase Subunit Alpha; EC 6.4.1
Gene ID	5095.0
SwissProt ID	P05165
Immunogen	Recombinant protein of human PCCA

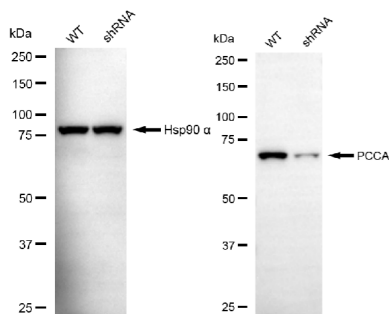
Background

The protein encoded by this gene is the alpha subunit of the heterodimeric mitochondrial enzyme Propionyl-CoA carboxylase. PCCA encodes the biotin-binding region of this enzyme. Mutations in either PCCA or PCCB (encoding the beta subunit) lead to an enzyme deficiency resulting in propionic acidemia. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010]

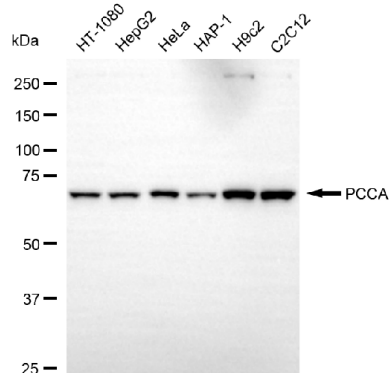
Research Area

Signal Transduction, Metabolism

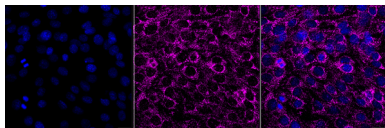
Image Data



Western blotting analysis using PCCA antibody (KVA00036). PCCA expression in wild-type (WT) and PCCA shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PCCA antibody (KVA00036, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PCCA antibody (KVA00036). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PCCA antibody (KVA00036, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with PCCA antibody (KVA00036, 1:1,000). Nuclei were stained blue with DAPI; PCCA was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.