[KD Validated] Anti-Phospho-ACC (Ser79) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021728

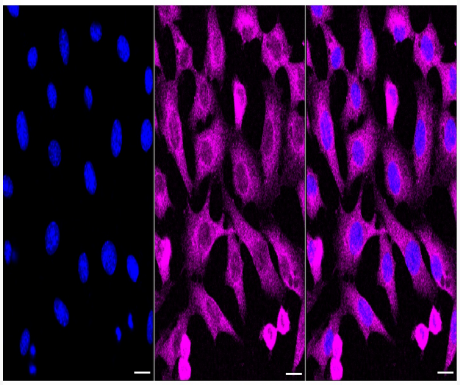
Product Information

Application	WB, IF (Cell)/ICC, IHC-P/IF (Tissue-P)
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IF 1:100~1:1,000; IHC-P 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	61D03B02
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-ACC (Ser79)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-Phospho-ACC (Ser79) Rabbit mAb [61D03B02] is for research use only and not for use in diagnostic or therapeutic procedures.

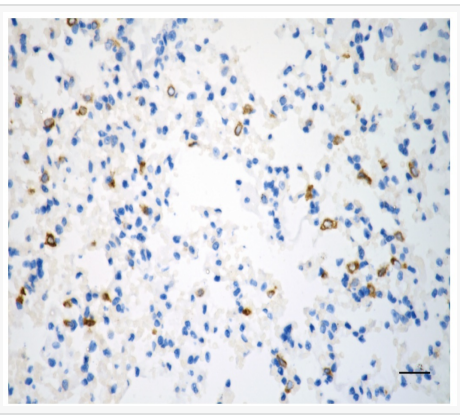
Protein Information

Synonyms	ACACA; Acetyl-CoA Carboxylase Alpha; ACC1; ACCA; Acetyl-Coenzyme A; Carboxylase Alpha; Acetyl-CoA Carboxylase 1; ACC-Alpha; HACC1; ACAC; ACACalpha; ACCalpha; Acac1; ACC; EC 6.4.1.2; ACACALPHA; ACC-ALPHA; ACCALPHA 5; ACACAD 3; ACAC1.
Calculated MW	Calculated MW: 266 kDa; Observed MW: 250 kDa
Uniprot ID	Q13085
Gene ID	31
Background	Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.

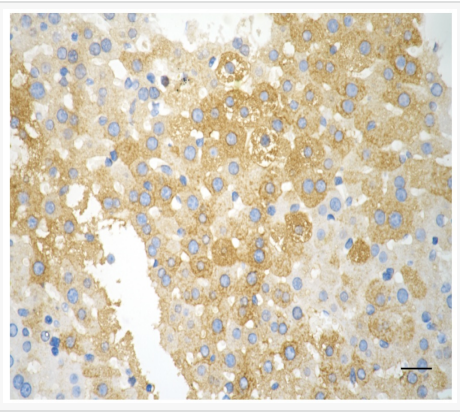
Validation Images



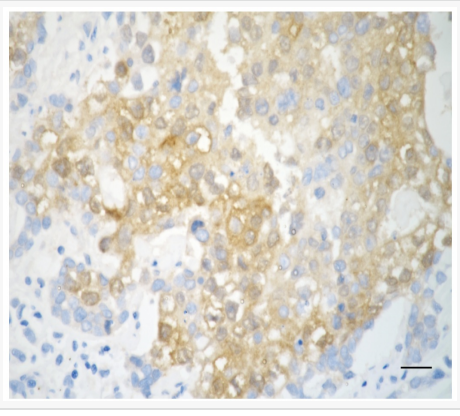
Immunocytochemical staining of C2C12 cells with Phospho-ACC(S79) antibody (R021728, 1:1,000). Nuclei were stained blue with DAPI; Phospho-ACC(S79) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



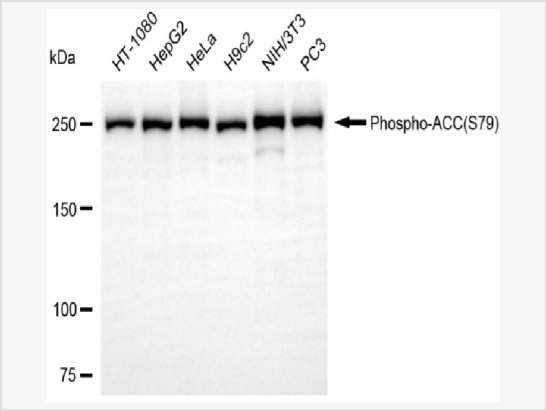
Immunohistochemistry was performed on paraffin-embedded mouse lung using phospho-ACC(S79) antibody (R021728, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



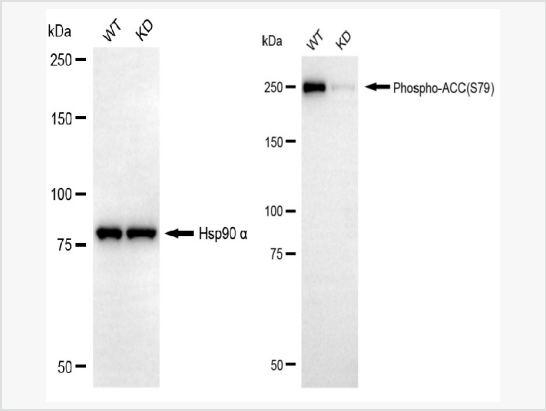
Immunohistochemistry was performed on paraffin-embedded mouse liver using phospho-ACC(S79) antibody (R021728, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using phospho-ACC(S79) antibody (R021728, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Western blotting analysis using phospho-ACC(S79) antibody (R021728). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-ACC(S79) antibody (R021728, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using phospho-ACC(S79) antibody (R021728). Phospho-ACC(S79) expression in wild-type (WT) and ACACA knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-ACC(S79) antibody (R021728, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.