

Rabbit anti-Human ACC1/ACC2-S79 Monoclonal Antibody | anti-ACACA/ACACB antibody

Phospho-ACC1/ACC2-S79 Rabbit PolymAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283153	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ACC1/ACC2-S79; Monoclonal Antibody; Phospho-ACC1/ACC2-S79 Rabbit PolymAb; ACC; ACAC; ACC1; ACCA; Acac1; hACC1; ACACAD; ACCalpha; ACACalpha; Phospho-Acetyl CoA Carboxylase-S79; anti-ACACA/ACACB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	SSMSG
Applicable Applications for anti-ACACA/ACACB antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic phosphorylated peptide around S79 of human Acetyl CoA Carboxylase.
Modification	Phospho S79
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



ICC (Immunocytochemistry)

Confocal imaging of RAW 264.7 cells using Phospho-ACC1/ACC2-S79 Rabbit PolymAb® (AP1410-PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



WB (Western Blot)

Western blot analysis of lysates from RAW 264.7 cells using Phospho-ACC1/ACC2-S79 Rabbit PolymAb® (AAA283153) at 1:2000 dilution incubated overnight at 4?. RAW 264.7 cells were treated by oligomycin (0.5 uM) at 37? for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 ug per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



WB (Western Blot)

Western blot analysis of lysates from A-431 cells using Phospho-ACC1/ACC2-S79 Rabbit PolymAb® (AAA283153) at 1:2000 dilution incubated overnight at 4?. A431 cells were treated by ?-PP mixed solution (1ul) at 30? for 30 minutes.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 30 ug per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-ACACA/ACACB antibody	Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. There are two ACC forms, alpha and beta, encoded by two different genes. ACC-alpha is highly enriched in lipogenic tissues. The enzyme is under long term control at the transcriptional and translational levels and under short term regulation by the phosphorylation/dephosphorylation of targeted serine residues and by allosteric transformation by citrate or palmitoyl-CoA. Multiple alternatively spliced transcript variants divergent in the 5' sequence and encoding distinct isoforms have been found for this gene.
Product Categories/Family for anti-ACACA/ACACB antibody	Phosphorylated Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	38679960
NCBI GeneID	31/32
NCBI Accession #	NP_942131.1
NCBI GenBank Nucleotide #	NM_198834.1
UniProt Accession #	Q13085; O00763
Molecular Weight	Calculated MW: 265kDa Observed MW: 266kDa
UniProt Protein Name	Acetyl-CoA carboxylase 1
UniProt Gene Name	ACACA
UniProt Synonym Gene Names	ACAC; ACC1; ACCA; ACC1
UniProt Entry Name	ACACA_HUMAN

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.