

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52361**Specification**

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody - Product Information

Application	WB, IHC
Primary Accession	O13085
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	265554

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody - Additional Information**Gene ID** 31**Other Names**

Acetyl-CoA carboxylase 1, ACC1, ACC-alpha, Biotin carboxylase, ACACA, ACAC, ACC1, ACCA

Dilution

WB~~1:1000

IHC~~1:50~100

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody - Protein Information**Name** ACACA ([HGNC:84](#))**Synonyms** ACAC, ACC1, ACCA**Function**

Cytosolic enzyme that catalyzes the carboxylation of acetyl- CoA to malonyl-CoA, the first and rate-limiting step of de novo fatty acid biosynthesis (PubMed:20457939, PubMed:20952656, PubMed:29899443). This is a 2 steps reaction starting with the ATP-dependent carboxylation of the biotin carried by the biotin carboxyl carrier (BCC) domain followed by the transfer of the carboxyl group from carboxylated biotin to acetyl-CoA (PubMed:20457939, PubMed:20952656, PubMed:29899443).

target="_blank">29899443).

Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q5SWU9}

Tissue Location

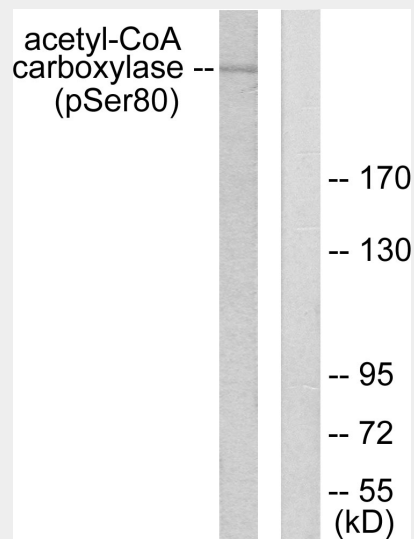
Expressed in brain, placenta, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody - Protocols

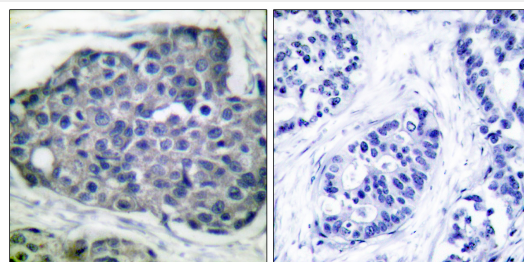
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody - Images



Western blot analysis of extracts from 293 cells treated with EGF (200ng/ml, 5mins), using Acetyl-CoA Carboxylase (phospho-Ser80) antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using

Acetyl-CoA Carboxylase (phospho-Ser80) antibody.

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody - 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.

Acetyl-CoA Carboxylase (Phospho-Ser80) Antibody - References

Abu-Elheiga L., et al. Proc. Natl. Acad. Sci. U.S.A. 92:4011-4015(1995).
Mao J., et al. Proc. Natl. Acad. Sci. U.S.A. 100:7515-7520(2003).
Sinilnikova O.M., et al. Carcinogenesis 25:2417-2424(2004).
Travers M.T., et al. Biochim. Biophys. Acta 1634:97-106(2003).
Travers M.T., et al. Genomics 85:71-84(2005).