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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	Q13085
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

Format
Rabbit 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℃

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:20952656, PubMed:20457939, 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:20952656, PubMed:20457939, PubMed:<a href="http://www.uniprot.org/citations/29899443"

target="_blank">29899443).

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

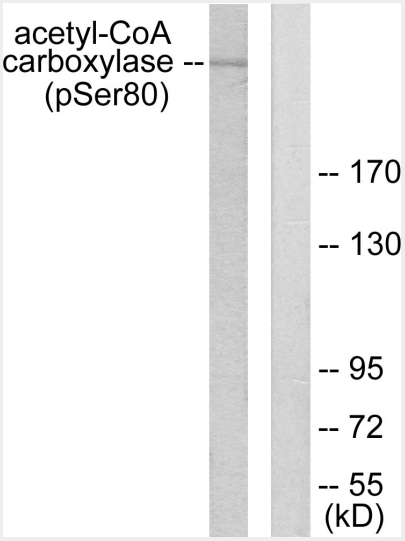
Tissue Location
Expressed in brain, placenta, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver

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

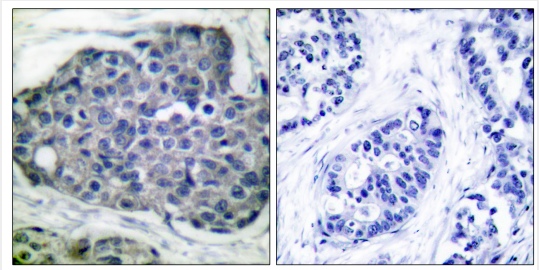
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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

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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).
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