

Anti-ACACA Monoclonal Antibody (A-4H10)

Catalog #: ASZ1C24

Product Details

Product Description:	The Anti-ACACA antibody is a mouse monoclonal antibody recommended for immunohistochemistry, immunocytochemistry, western blot, immunoprecipitation and other applications. This antibody specifically targets human ACACA.
Host Species:	Mouse
Target:	ACACA
Target Species:	Human
Specificity:	This antibody reacts with human Acetyl-CoA Carboxylase Alpha (ACACA).
Species Reactivity:	Human
Clonality:	Monoclonal
Clone ID:	A-4H10
Purification:	The antibody was purified by affinity chromatography.
Purity:	>95% as determined by SDS-PAGE

Formulation Information

Concentration:	1 mg/mL
Sterility:	0.2 µM filtered
Preservative:	0.02% sodium azide

Applications

Applications:	Immunohistochemistry, Immunocytochemistry, Western Blot, Immunoprecipitation
Recommended Dilution:	Western Blot: 1:500-1:5000 Immunohistochemistry: 1:50-1:200 Immunocytochemistry: 1:50-1:200
Note:	Optimal dilutions/concentrations should be determined by the end user.

Storage & Handling

Shipping:	Shipped at 4°C.
Storage:	This antibody can be stored at 2°C-8°C for one month. For longer storage, store at -20°C. Avoid repeated freeze-thaw cycles.

Target Details

Protein Name: Acetyl-CoA carboxylase 1

Introduction: 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.

Alternative Names: ACACD; ACC; ACC1; ACCA; ACACA

Gene ID: [31](#)

UniProt: [Q13085](#)

Related Disease: Acetyl-CoA carboxylase-alpha deficiency (ACACAD)

Subcellular Location: Cytoplasm, cytosol

Cell Line Specificity: Low cancer specificity