

Fatty Acid Synthase Polyclonal Antibody

Catalog No :	YT1683
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	Fatty Acid Synthase
Fields :	>>Fatty acid biosynthesis;>>Metabolic pathways;>>Fatty acid metabolism;>>AMPK signaling pathway;>>Insulin signaling pathway;>>Alcoholic liver disease
Gene Name :	FASN
Protein Name :	Fatty acid synthase
Human Gene Id :	2194
Human Swiss Prot No :	P49327
Mouse Swiss Prot No :	P19096
Immunogen :	The antiserum was produced against synthesized peptide derived from human Fatty Acid Synthase. AA range:1478-1527
Specificity :	Fatty Acid Synthase Polyclonal Antibody detects endogenous levels of Fatty Acid Synthase protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC: 100-300.WB 1:500 - 1:2000. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 273kD

Cell Pathway : Fatty acid biosynthesis;Insulin_Receptor;

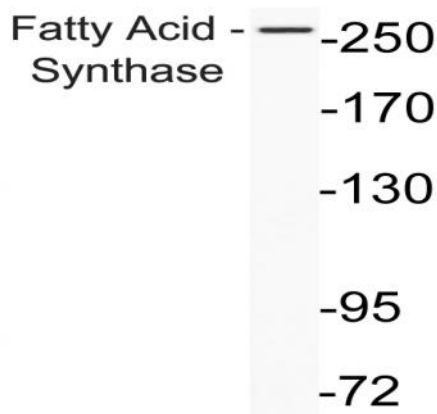
Background : The enzyme encoded by this gene is a multifunctional protein. Its main function is to catalyze the synthesis of palmitate from acetyl-CoA and malonyl-CoA, in the presence of NADPH, into long-chain saturated fatty acids. In some cancer cell lines, this protein has been found to be fused with estrogen receptor-alpha (ER-alpha), in which the N-terminus of FAS is fused in-frame with the C-terminus of ER-alpha. [provided by RefSeq, Jul 2008],

Function : catalytic activity:(3R)-3-hydroxyacyl-[acyl-carrier-protein] + NADP(+) = 3-oxoacyl-[acyl-carrier-protein] + NADPH.,catalytic activity:(3R)-3-hydroxypalmitoyl-[acyl-carrier-protein] = hexadec-2-enoyl-[acyl-carrier-protein] + H(2)O.,catalytic activity:Acetyl-CoA + [acyl-carrier-protein] = CoA + acetyl-[acyl-carrier-protein].,catalytic activity:Acetyl-CoA + n malonyl-CoA + 2n NADPH = a long-chain fatty acid + (n+1) CoA + n CO(2) + 2n NADP(+).,catalytic activity:Acyl-[acyl-carrier-protein] + malonyl-[acyl-carrier-protein] = 3-oxoacyl-[acyl-carrier-protein] + CO(2) + [acyl-carrier-protein].,catalytic activity:Acyl-[acyl-carrier-protein] + NADP(+) = trans-2,3-dehydroacyl-[acyl-carrier-protein] + NADPH.,catalytic activity:Malonyl-CoA + [acyl-carrier-protein] = CoA + malonyl-[acyl-carrier-protein].,catalytic activity:Oleoyle-[acyl-carrier-protein] + H(2)O = [acyl-carrier-protein] + oleate.,functi

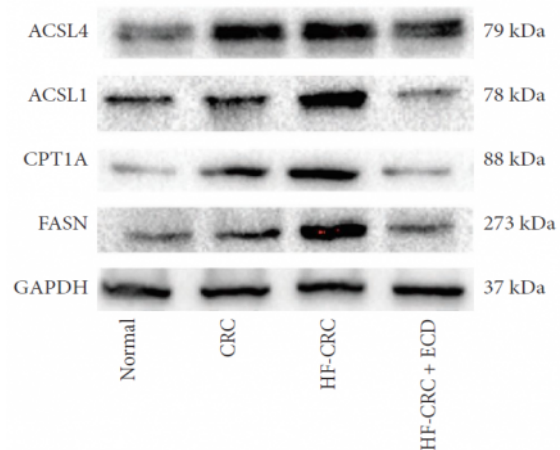
Subcellular Location : Cytoplasm . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Expression : Ubiquitous. Prominent expression in brain, lung, liver and mammary gland.

Products Images



Western blot analysis of lysate from A549 cells., using Fatty Acid Synthase antibody



Regulation of Fatty Acid Metabolism and Inhibition of Colorectal Cancer Progression by Erchen Decoction Evidence-based Complementary and Alternative Medicine Linghong Liao WB Mouse colorectal tissue