

**Fatty Acid Synthase mouse mAb**

<b>Catalog No :</b>	YM1224
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey;Bovine
<b>Applications :</b>	WB;IP;IF
<b>Target :</b>	Fatty Acid Synthase
<b>Fields :</b>	>>Fatty acid biosynthesis;>>Metabolic pathways;>>Fatty acid metabolism;>>AMPK signaling pathway;>>Insulin signaling pathway;>>Alcoholic liver disease
<b>Gene Name :</b>	fasn
<b>Human Gene Id :</b>	2194
<b>Human Swiss Prot No :</b>	P49327
<b>Mouse Swiss Prot No :</b>	P19096
<b>Immunogen :</b>	Purified recombinant human Fatty Acid Synthase protein fragments expressed in E.coli.
<b>Specificity :</b>	This antibody detects endogenous levels of Fatty Acid Synthase and does not cross-react with related proteins.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb 1:1000 icc 1:400. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-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],

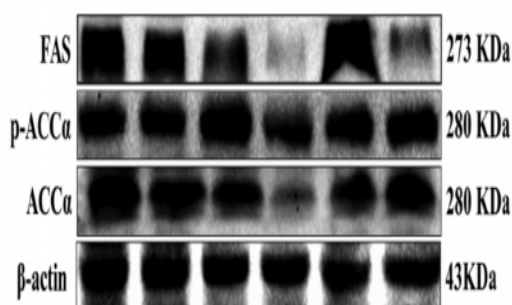
**Function :** catalytic activity:(3R)-3-hydroxyacyl-[acyl-carrier-protein] + NADP(+) = 3-oxoacyl-[acyl-carrier-protein] + NADPH.,catalytic activity:(3R)-3-hydroxypalmitoyl-[acyl-carrier-protein] = hexadec-2-enoyl-[acyl-carrier-protein] + H(2)O.,catalytic activity:Acetyl-CoA + [acyl-carrier-protein] = 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:Oleoyl-[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.

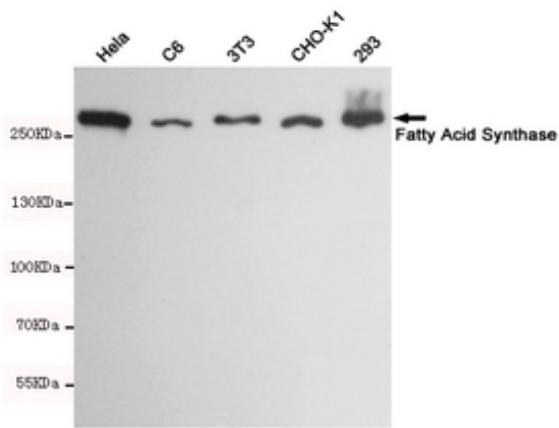
**Expression :** Ubiquitous. Prominent expression in brain, lung, liver and mammary gland.

## Products Images

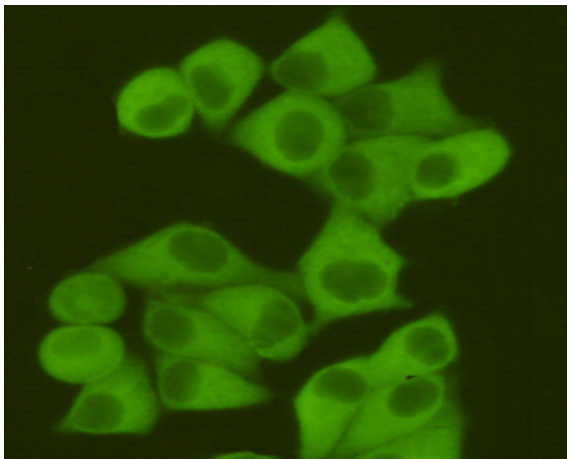
EGCG (μM)	0	0.01	0.1	1	0	0.1
BML-275 (μM)	0	0	0	0	10	10



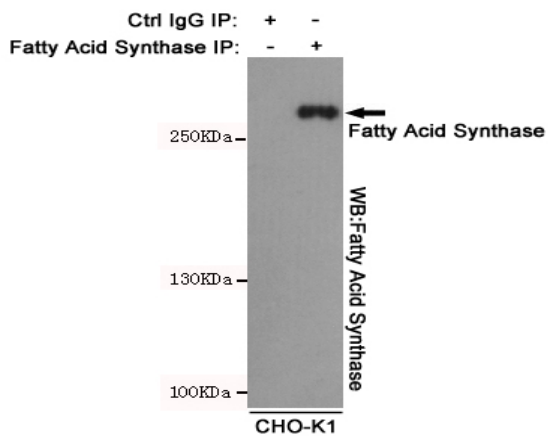
Ding, Hongyan, et al. "Epigallocatechin-3-gallate activates the AMP-activated protein kinase signaling pathway to reduce lipid accumulation in canine hepatocytes." *Journal of Cellular Physiology* 236.1 (2021): 405-416.



Western blot detection of Fatty Acid Synthase in Hela, C6, 3T3, CHO-K1 and 293 cell lysates using Fatty Acid Synthase mouse mAb (dilution 1:1000). Predicted band size: 273 kDa. Observed band size: 273 kDa.



Immunocytochemistry staining of Hela cells fixed with 4% Paraformaldehyde and using anti-Fatty Acid Synthase mouse mAb (dilution 1:400).



Immunoprecipitation analysis of CHO-K1 cell lysates using Fatty Acid Synthase mouse mAb.