

## Fatty Acid Synthase mouse mAb

Catalog No: YM1224

**Reactivity:** Human; Mouse; Rat; Monkey; Bovine

**Applications:** WB;IP;IF

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

Human Gene ld: 2194

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

Immunogen: Purified recombinant human Fatty Acid Synthase protein fragments expressed

in E.coli.

P49327

P19096

**Specificity:** This antibody detects endogenous levels of Fatty Acid Synthase and does not

cross-react with related proteins.

**Formulation:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Source:** Monoclonal, Mouse

**Dilution:** wb 1:1000 icc 1:400. IF 1:50-200

**Purification:** The antibody was affinity-purified from mouse ascites 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)

1/4

**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 (ERalpha), 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.

Tag: orthogonal,ip

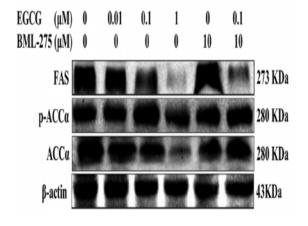
**Sort**: 5965

**No4**: 1

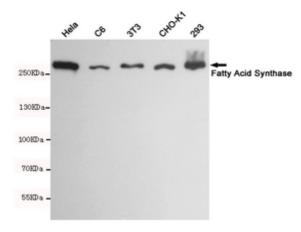
**Host:** Mouse

Modifications: Unmodified

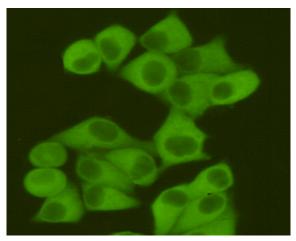
## **Products Images**



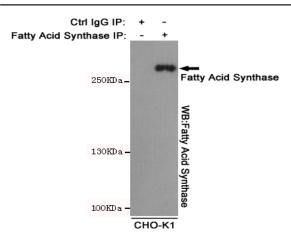
Ding, Hongyan, et al. "Epigallocatechin-3-gallate activates the AMP-activated protein kinase signaling pathway to reduce lipid accumulation in canine hepatocytes." Journal of Cellular Physiology 236.1 (2021): 405-416.



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:273kDa.Observed band size:273kDa.



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.