



Mouse Monoclonal Antibody **Fatty Acid Synthase** conjugated to Sepharose Beads

CatalogNo: **ANT8374-S**

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

Fatty Acid Synthase (ANT0054R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat,

Applications

- WB, IHC, IF, IP, ELISA

MW

- 273kD (Calculated)
- 273kD (Observed)

Isotype

- IgG, Kappa

Recommended Dilution Ratios

IP

Basic Information

Clonality Monoclonal

Clone Number ANT0054R

Immunogen Information

Specificity Endogenous

Target Information

Gene name FASN

Protein Name Fatty acid synthase

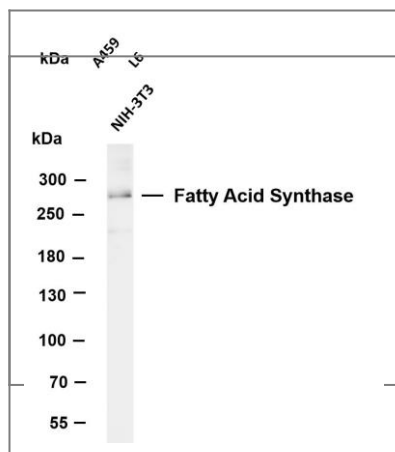
Organism	Gene ID	UniProt ID
Human	2194 ;	P49327 ;
Mouse		P19096 ;

Cellular Cytoplasm
Localization

Tissue specificity Ubiquitous. Prominent expression in brain, lung, liver and mammary gland.

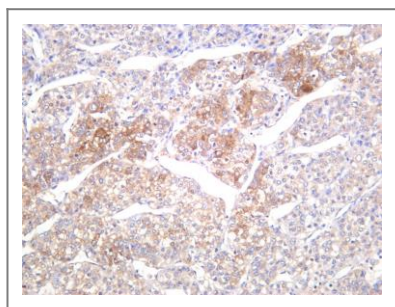
Function Catalytic activity:(3R)-3-hydroxyacyl-[acyl-carrier-protein] + NADP(+) = 3-oxoacyl-[acylcarrier-protein] + NADPH.,Catalytic activity:(3R)-3-hydroxypalmitoyl-[acyl-carrier-protein] = hexadec-2-enoyl-[acyl-carrier-protein] + H(2)O.,Catalytic activity:Acetyl-CoA + [acyl-carrierprotein] = CoA + 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-carrierprotein] + CO(2) + [acyl-carrier-protein].,Catalytic activity:Acyl-[acyl-carrier-protein] + NADP(+) = trans-2,3-dehydroacyl-[acyl-carrier-protein] + NADPH.,Catalytic activity:MalonylCoA + [acyl-carrier-protein] = CoA + malonyl-[acyl-carrier-protein].,Catalytic activity:Oleoyl-[acyl-carrier-protein] + H(2)O = [acyl-carrier-protein] + oleate.,Function:Fatty acid synthetase catalyzes the formation of long-chain fatty acids from acetyl-CoA, malonyl-CoA and NADPH. This multifunctional protein has 7 catalytic activities and an acyl carrier protein.,miscellaneous:The relatively low beta-ketoacyl synthase activity may be attributable to the low 4'-phosphopantetheine content of the protein.,sequence Caution:Several sequencing errors.,similarity:Contains 1 acyl carrier domain.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Homodimer which is arranged in a head to tail fashion.,tissue specificity:Ubiquitous. Prominent expression in brain, lung, and liver.,

Validation Data

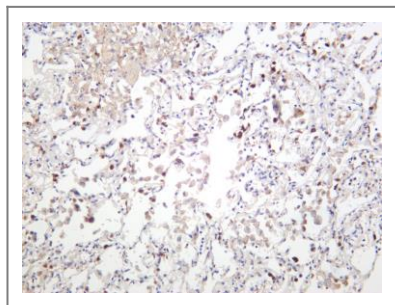


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Fatty Acid Synthase (ANT0054R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: L6
Predicted band size: 273kDa Observed band size: 273kDa

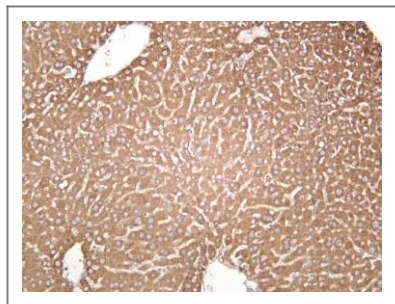
Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-Fatty Acid Synthase (ANT0054R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3
Predicted band size: 273kDa Observed band size: 273kDa



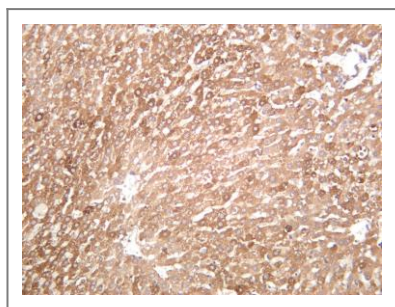
Human hepatocellular carcinoma was stained with anti-Fatty Acid Synthase (ANT0054R) rabbit antibody



Human lung was stained with anti-Fatty Acid Synthase (ANT0054R) rabbit antibody



Mouse liver was stained with anti-Fatty Acid Synthase (ANT0054R) rabbit antibody



Rat liver was stained with anti-Fatty Acid Synthase (ANT0054R) rabbit antibody

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