

**Fatty Acid Synthase (PT0554R) PT® Rabbit mAb**

<b>Catalog No :</b>	YM8374
<b>Reactivity :</b>	Human; Mouse; Rat;
<b>Applications :</b>	WB;IHC;IF;IP;ELISA
<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>Protein Name :</b>	Fatty acid synthase
<b>Human Gene Id :</b>	2194
<b>Human Swiss Prot No :</b>	P49327
<b>Mouse Swiss Prot No :</b>	P19096
<b>Specificity :</b>	endogenous
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal, rabbit, IgG, Kappa
<b>Dilution :</b>	IHC 1:500-1:2000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
<b>Purification :</b>	Protein A
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	273kD
<b>Observed Band :</b>	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],

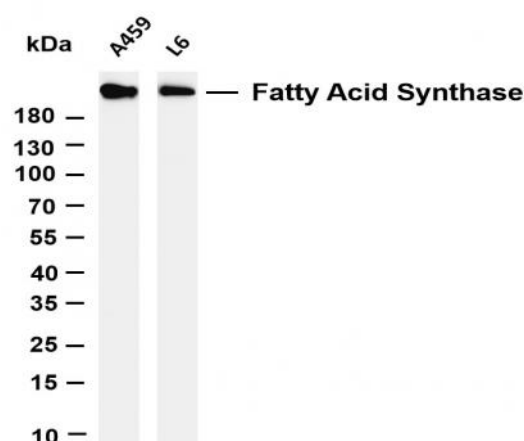
**Function :**

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

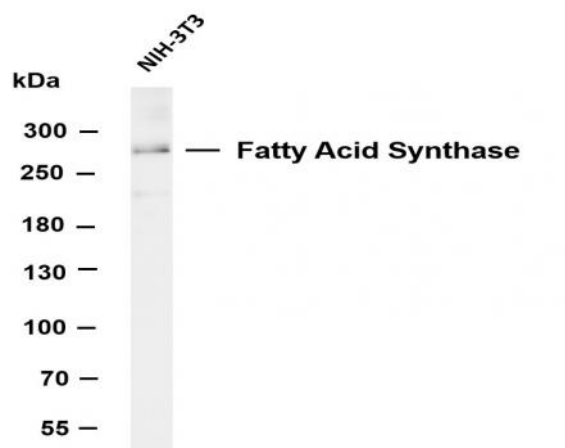
**Subcellular Location :** Cytoplasm

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

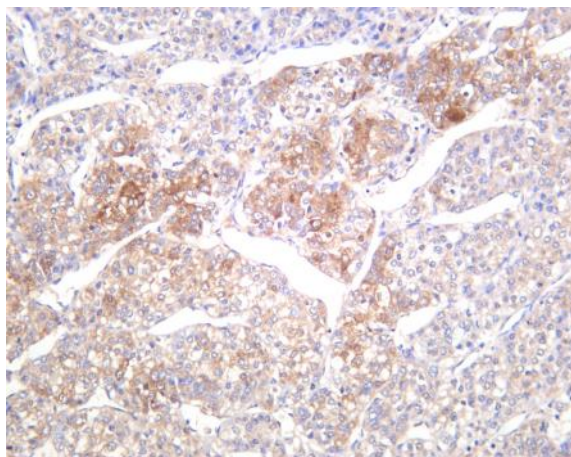
## Products Images



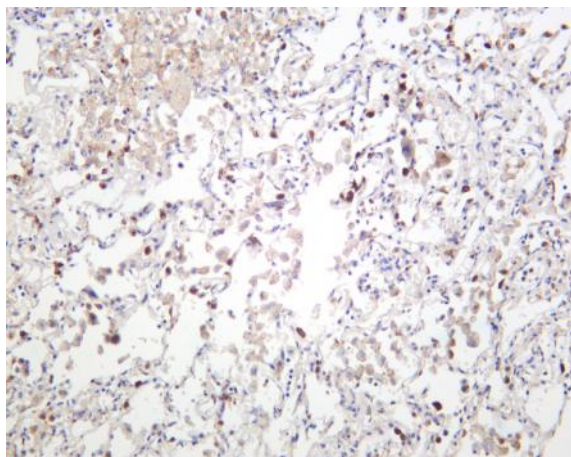
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Fatty Acid Synthase (PT0554R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: L6 Predicted band size: 273kDa Observed band size: 273kDa



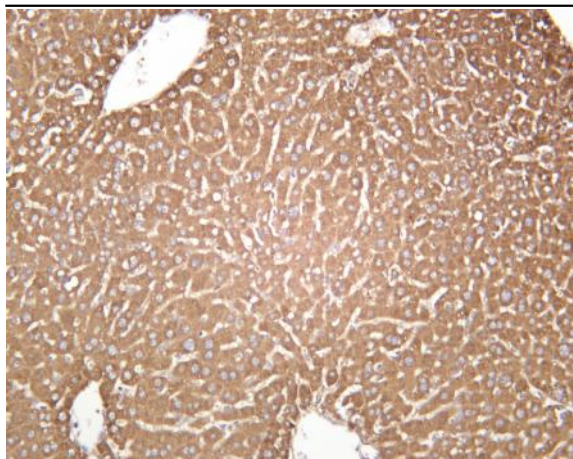
Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-Fatty Acid Synthase (PT0554R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Predicted band size: 273kDa Observed band size: 273kDa



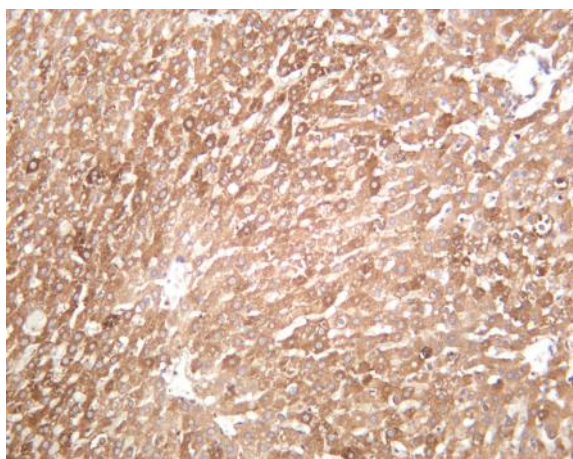
Human hepatocellular carcinoma was stained with anti-Fatty Acid Synthase (PT0554R) rabbit antibody



Human lung was stained with anti-Fatty Acid Synthase (PT0554R) rabbit antibody



Mouse liver was stained with anti-Fatty Acid Synthase (PT0554R) rabbit antibody



Rat liver was stained with anti-Fatty Acid Synthase (PT0554R) rabbit antibody