Anti-Fatty Acid Synthase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013857

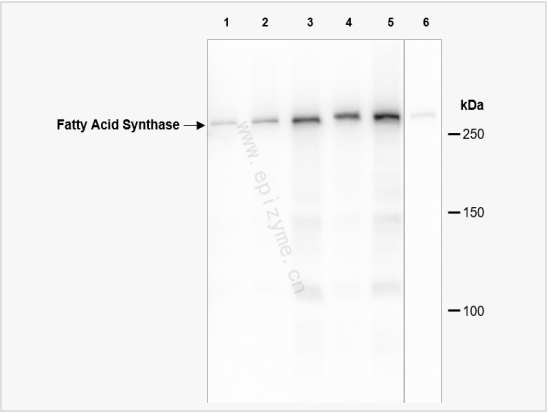
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	61B05N91
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Fatty Acid Synthase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Fatty Acid Synthase Rabbit mAb [61B05N91] is for research use only and not for use in diagnostic or therapeutic procedures.

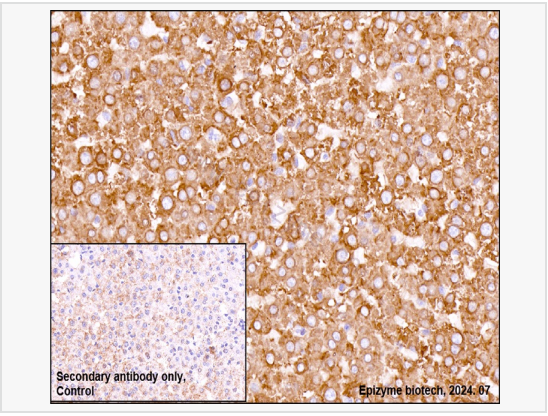
Protein Information

Synonyms	[Acyl-carrier-protein] S acetyltransferase, [Acyl-carrier-protein] S malonyltransferase, 3-hydroxypalmitoyl-[acyl-carrier-protein] dehydratase, 3-oxoacyl-[acyl-carrier-protein] reductase, 3-oxoacyl-[acyl-carrier-protein] synthase, Enoyl-[acyl-carrier-protein] reductase, FAS, FAS_HUMAN, FASN, Fatty acid synthase, MGC14367, MGC15706, OA 519, Oleoyl-[acyl-carrier-protein] hydrolase, SDR27X1, Short chain dehydrogenase/reductase family 27X member 1.
Calculated MW	Calculated MW: 273 kDa; Observed MW: 273 kDa
Uniprot ID	P49327
Gene ID	2194
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]
Cellular Location	Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Location	Ubiquitous. Prominent expression in brain, lung, and liver.

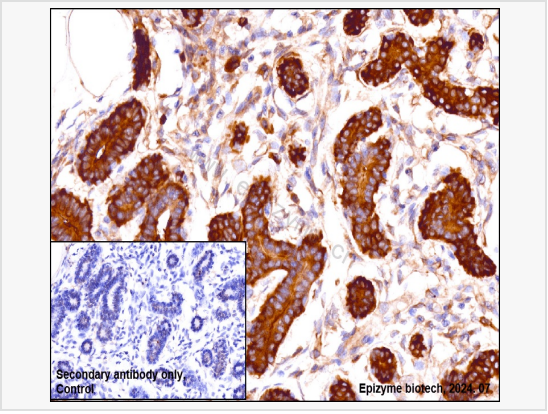
Validation Images



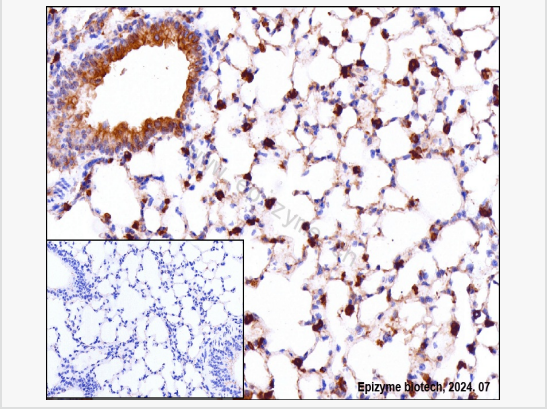
Western Blot - Anti-Fatty Acid Synthase Rabbit mAb [61B05N91]
All lanes: R013857 at 1:2,000 dilution
Lane 1: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 2: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 3: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 6: Balb/c mouse brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 273 kDa
Observed band size: 273 kDa
Developed using the ECL technique (Cat. No. SQ201).



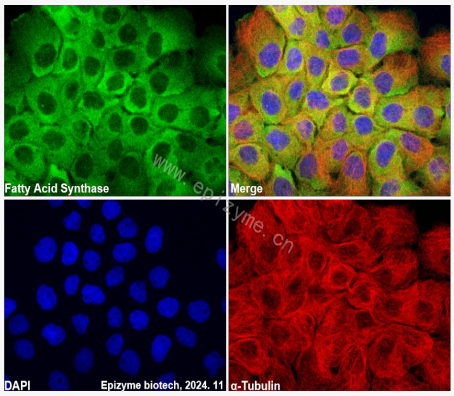
Immunohistochemistry - Anti-Fatty Acid Synthase Rabbit mAb [61B05N91]
Sample: Paraformaldehyde-fixed, paraffin embedded rat liver tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013857 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Fatty Acid Synthase Rabbit mAb [61B05N91]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013857 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Fatty Acid Synthase Rabbit mAb [61B05N91]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013857 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Fatty Acid Synthase Rabbit mAb [61B05N91]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013857 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).