

Anti-Fatty Acid Synthase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

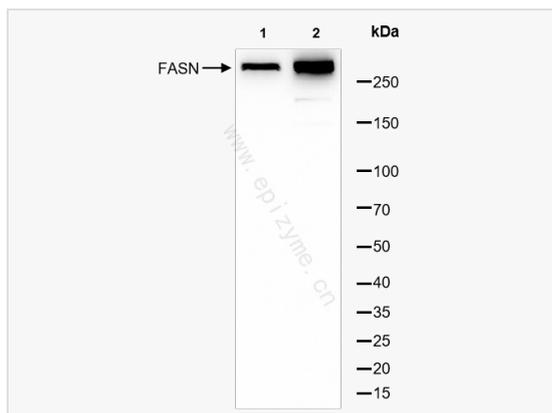
Catalog # R013880

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Rat, Mouse
Dilution	WB 1:1,000~1:8,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	12P06M33
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human FASN
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 [12P06M33] 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
Background	Fatty acid synthase (FASN) catalyzes the synthesis of long-chain fatty acids from acetyl-CoA and malonyl-CoA. FASN is active as a homodimer with seven different catalytic activities and produces lipids in the liver for export to metabolically active tissues or storage in adipose tissue. In most other human tissues, FASN is minimally expressed since they rely on circulating fatty acids for new structural lipid synthesis.
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.



Western Blot - Anti-FASN Rabbit mAb [12P06M33]

All lanes: R013880 at 1:8,000 dilution

Lane 1: HePG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

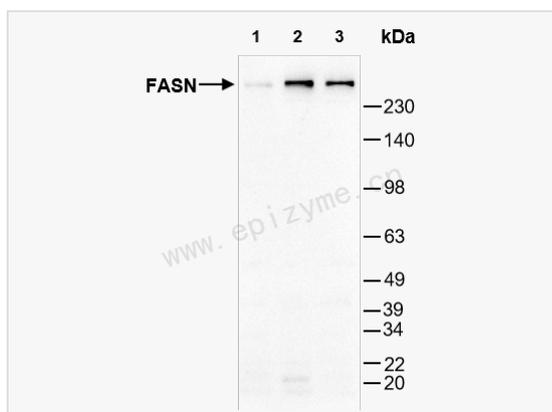
Lysates/proteins at 10 μ g per lane.

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).



Western Blot - Anti-FASN Rabbit mAb [12P06M33]

All lanes: R013880 at 1:8,000 dilution

Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 3: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

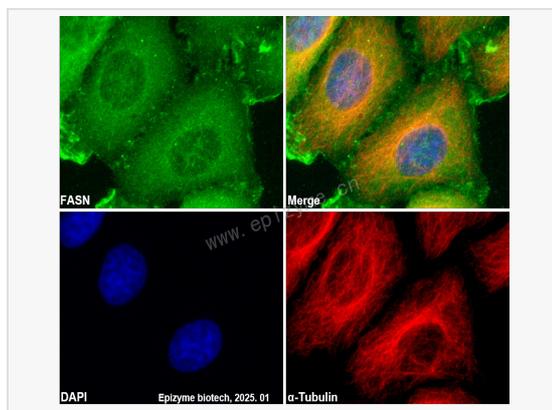
Lysates/proteins at 10 μ g per lane.

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).



Immunofluorescence - Anti-FASN Rabbit mAb [12P06M33]

Sample: HeLa 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: R013880 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).