Product Name: **KD-Validated Fatty Acid Synthase Recombinant Rabbit Monoclonal Antibody**

Catalog #: **KVAb01087**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 273.4kDa

Antigen Information

Gene Name	FASN
Alternative Names	FASN; Fatty Acid Synthase; FAS; SDR27X1; Short Chain Dehydrogenase/Reductase Family 27X, Member 1; 3-Hydroxyacyl-[Acyl-Carrier-Protein] Dehydratase; [Acyl-Carrier-Protein] S-Malonyltransferase; [Acyl-Carrier-Protein] S-Acetyltransferase; 3-Oxoacyl-[Acyl-Carrier-Protein] Reductase; 3-Oxoacyl-[Acyl-Carrier-Protein] Synthase; Enoyl-[Acyl-Carrier-Protein] Reductase; Acyl-[Acyl-Carrier-Protein] Hydrolase; Type I Fatty Acid Synthase; EC 2.3.1.85; EC 6.3.3.1; EC 2.3.1; OA-519
Gene ID	2194.0
SwissProt ID	P49327
Immunogen	A synthesized peptide derived from human FASN

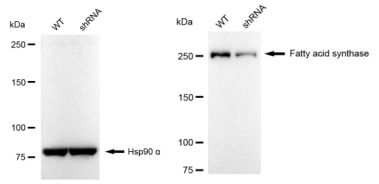
Background

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]

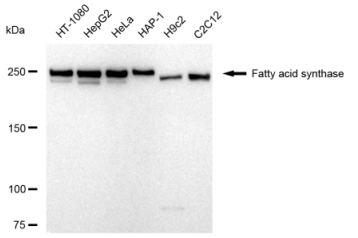
Research Area

Cardiovascular,Signal Transduction,Neuroscience,Cancer,Metabolism

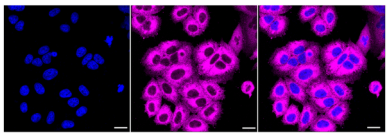
Image Data



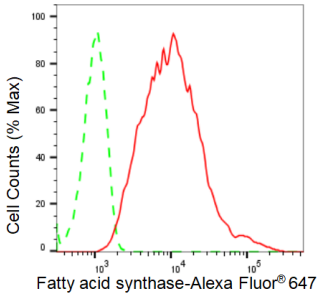
Western blotting analysis using Fatty acid synthase antibody (KVAb01087). Fatty acid synthase expression in wild type (WT) and Fatty acid synthase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Fatty acid synthase antibody (KVAb01087, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Fatty acid synthase antibody (KVAb01087). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Fatty acid synthase antibody (KVAb01087, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Fatty acid synthase antibody (KVAb01087, 1:1,000). Nuclei were stained blue with DAPI; Fatty acid synthase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Fatty acid synthase expression in HepG2 cells using Fatty acid synthase antibody (KVAb01087, 1:2,000). Green, isotype control; red, Fatty acid synthase.