

Fatty Acid Synthase Rabbit mAb

Catalog No: #49306

Package Size: #49306-1 50ul #49306-2 100ul

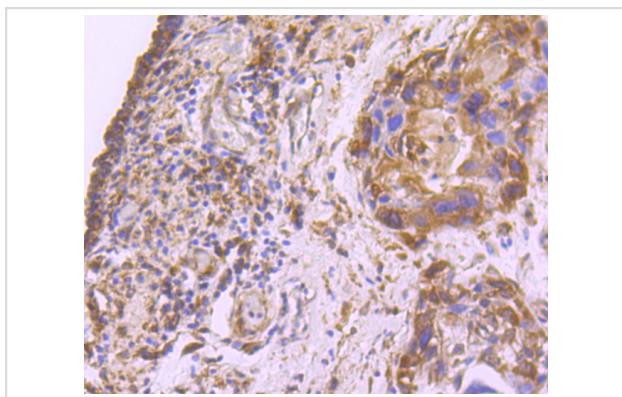
Description

Product Name	Fatty Acid Synthase Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JJ0939
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	[Acyl-carrier-protein] S acetyltransferase antibody [Acyl-carrier-protein] S malonyltransferase antibody 3-hydroxypalmitoyl-[acyl-carrier-protein] dehydratase antibody 3-oxoacyl-[acyl-carrier-protein] reductase antibody 3-oxoacyl-[acyl-carrier-protein] synthase antibody Enoyl-[acyl-carrier-protein] reductase antibody FAS antibody FAS_HUMAN antibody FASN antibody Fatty acid synthase antibody MGC14367 antibody MGC15706 antibody OA 519 antibody Oleoyl-[acyl-carrier-protein] hydrolase antibody SDR27X1 antibody Short chain dehydrogenase/reductase family 27X member 1 antibody
Accession No.	Swiss-Prot#:P49327
Calculated MW	273 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

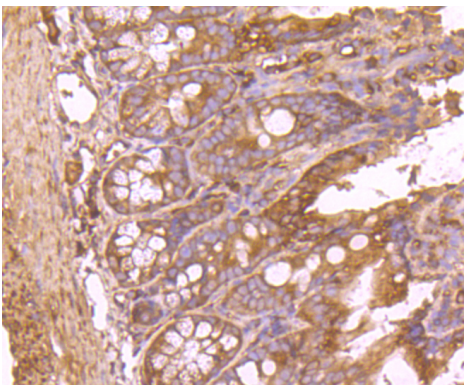
Application Details

WB: 1:1,000 IHC: 1:50-1:200 ICC: 1:100-1:500 FC: 1:50-1:100

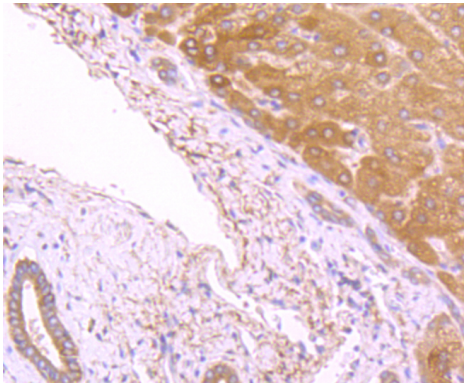
Images



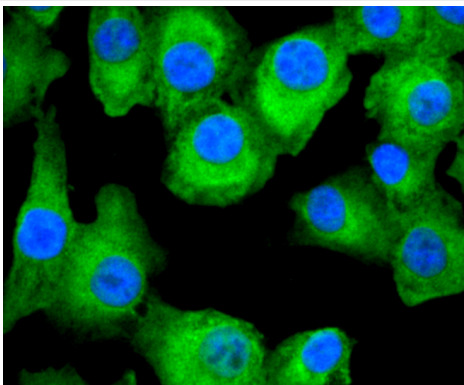
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Fatty Acid Synthase antibody. Counter stained with hematoxylin.



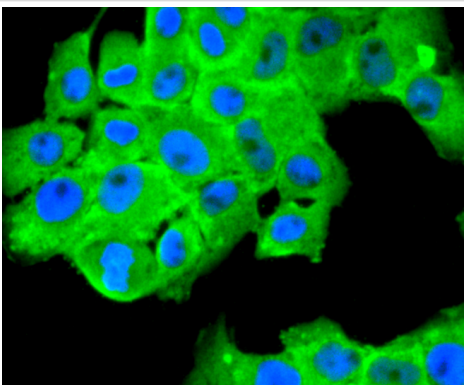
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Fatty Acid Synthase antibody. Counter stained with hematoxylin.



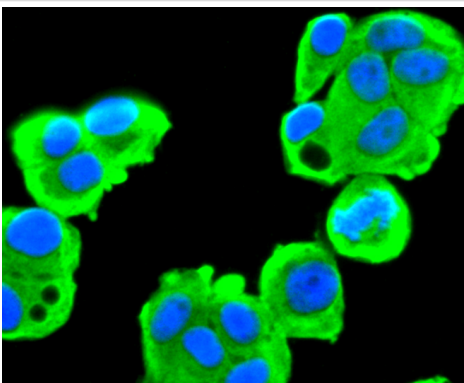
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Fatty Acid Synthase antibody. Counter stained with hematoxylin.



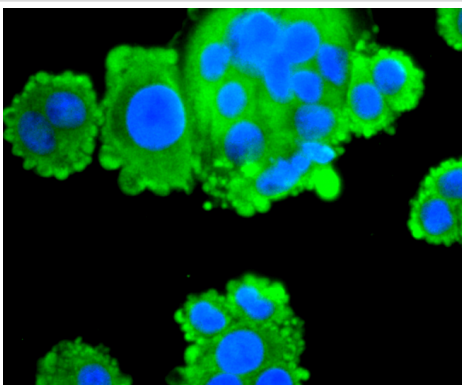
ICC staining Fatty Acid Synthase in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



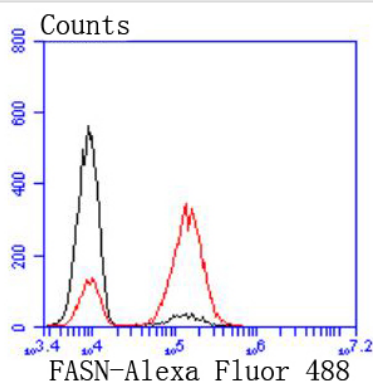
ICC staining Fatty Acid Synthase in RH-35 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Fatty Acid Synthase in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Fatty Acid Synthase in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of A549 cells with Fatty Acid Synthase antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Fatty acid biosynthesis is mediated by seven catalytic enzymes and an acyl carrier protein (ACP), to which various acyl intermediates are covalently attached. Fatty Acid Synthase (FAS) is the anabolic enzyme that contains the seven unique catalytic sites and mediates the conversion of acetyl-CoA and malonyl-CoA, in the presence of the cofactor NADPH, into long-chain saturated fatty acids, such as palmitate. Human Fatty Acid Synthase cDNA encodes a 2,504 amino acid protein. Catalytically active Fatty Acid Synthase is a homodimer. Human Fatty Acid Synthase mRNA is variably expressed with abundant levels present in brain, lung and liver. Fatty acid synthetic metabolism is abnormally elevated in tumor cells and may support cell growth or survival of malignant cancers.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.