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Anti-Fatty Acid Synthase Antibody

Mouse Anti Human Monoclonal Antibody
Catalog # AP53387

Product Information

Application	WB, IF, IP
Primary Accession	P49327
Other Accession	NM_004104
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Immunogen	Purified recombinant human Fatty Acid Synthase protein fragments expressed in E.coli.
Purification	Affinity purified
Calculated MW	273427

Additional Information

Gene ID	2194
Other Names	[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]
Dilution	WB~~1:1000 IF~~1:50~200 IP~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

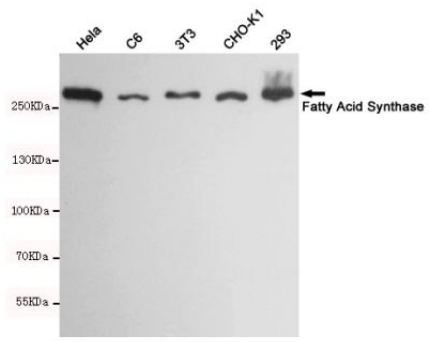
Name	FASN
Synonyms	FAS
Function	Fatty acid synthetase is a multifunctional enzyme that catalyzes the de novo biosynthesis of long-chain saturated fatty acids starting from acetyl-CoA and malonyl-CoA in the presence of NADPH. This multifunctional protein contains 7 catalytic activities and a site for the binding of the prosthetic group 4'-phosphopantetheine of the acyl carrier protein ([ACP]) domain.

Cellular Location	Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV
Tissue Location	Ubiquitous. Prominent expression in brain, lung, liver and mammary gland.

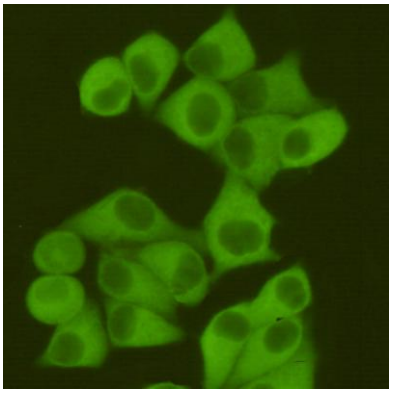
Background

Fatty acid synthetase catalyzes the formation of long-chain fatty acids from acetyl-CoA, malonyl-CoA and NADPH. This multifunctional protein has 7 catalytic activities and an acyl carrier protein.

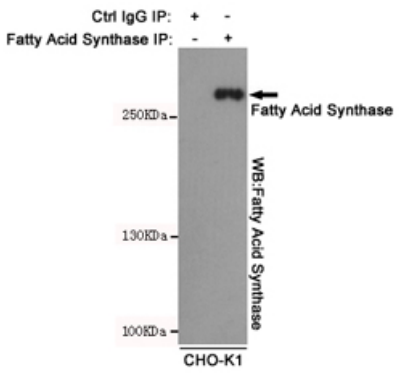
Images



Western blot detection of Fatty Acid Synthase in Hela,C6,3T3,CHO-K1 and 293 cell lysates using Fatty Acid Synthase mouse mAb(dilution 1:1000).Predicted band size:273kDa.Observed band size:273kDa.



Immunocytochemistry staining of Hela cells fixed with 4% Paraformaldehyde and using anti-Fatty Acid Synthase mouse mAb (dilution 1:400).



Immunoprecipitation analysis of CHO-K1 cell lysates using Fatty Acid Synthase mouse mAb.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.