

FASN Rabbit pAb

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Catalog # AP52150

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P49327
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	273427
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from humanFASN
Epitope Specificity	1451-1550/2411
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FASN (Fatty Acid Synthase) is a central enzyme in de novo lipogenesis. FAS is a target for SREBP and is upregulated by LXR activation; it is also one of the accepted markers for insulin resistance, SREBP and LXR activation.

Additional Information

Gene ID	2194
Other Names	Fatty acid synthase, 2.3.1.85, Type I fatty acid synthase, [Acyl-carrier-protein] S-acetyltransferase, 2.3.1.38, [Acyl-carrier-protein] S-malonyltransferase, 2.3.1.39, 3-oxoacyl-[acyl-carrier-protein] synthase, 2.3.1.41, 3-oxoacyl-[acyl-carrier-protein] reductase, 1.1.1.100, 3-hydroxyacyl-[acyl-carrier-protein] dehydratase, 4.2.1.59, Enoyl-[acyl-carrier-protein] reductase, 1.3.1.39, Acyl-[acyl-carrier-protein] hydrolase, 3.1.2.14, FASN, FAS
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

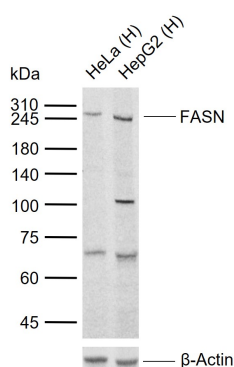
Background

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References

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Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Bienvenut W.V.,et al.Submitted (JUL-2005) to UniProtKB.
Carninci P.,et al.Science 309:1559-1563(2005).
Paulauskis J.D.,et al.Biochem. Biophys. Res. Commun. 158:690-695(1989).

Images



Sample:

Lane 1: Human HeLa cell lysates

Lane 2: Human HepG2 cell lysates

Primary: Anti-FASN (AP52150) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 272 kDa

Observed band size: 250 kDa

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