FASN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FASN, Polyclonal Antibody
Full Product Name	FASN Polyclonal Antibody
Product Gene Name	anti-FASN antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	273kDa
OMIM	600212
3D Structure	ModBase 3D Structure for P49327
Immunogen	Recombinant protein of human FASN (NP_004095.4).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FASN antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-FASN antibody	WB: 1:500-1:2000 IHC: 1:50-1:100 IF: 1:50-1:200 IP: 1:50-1:100
Related Product Information for anti-FASN antibody	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.
Other Notes	Small volumes of anti-FASN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FASN purchase	MBS8566158 is an antibody targeting FASN. Also known as FASN Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FASN. It may not necessarily be applicable to this product.

NCBI GI #	41872631
NCBI GeneID	2194
NCBI Accession #	NP_004095.4

UniProt Primary Accession #	P49327
UniProt Related Accession #	P49327
GenBank Nucleotide #	NP_004095.4
NCBI Official Full Name	fatty acid synthase
NCBI Official Synonym Full Names	fatty acid synthase
NCBI Official Symbol	FASN
NCBI Official Synonym Symbols	FAS; OA-519; SDR27X1
UniProt Protein Name	Fatty acid synthase
Protein Family	Fatty acid synthase
UniProt Gene Name	FASN
UniProt Synonym Gene Names	FAS
UniProt Entry Name	FAS_HUMAN
NCBI Protein Information	fatty acid synthase
UniProt Comments for FASN	FASN: a multifunctional enzyme. Catalyzes 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. Protein type: Oxidoreductase; EC 4.2.1.59; EC 2.3.1.39; EC 2.3.1.38; EC 1.3.1.39; Hydrolase; EC 2.3.1.85; EC 1.1.1.100; EC 3.1.2.14; EC 2.3.1.41; Lipid Metabolism - fatty acid biosynthesis; Lyase; Acetyltransferase Chromosomal Location of Human Ortholog: 17q25 Cellular Component: Golgi apparatus; membrane; mitochondrion; glycogen granule; cytoplasm; plasma membrane; melanosome; cytosol Molecular Function: fatty-acid synthase activity; protein homodimerization activity; myristoyl-[acyl-carrier-protein] hydrolase activity; 3-oxoacyl-[acyl-carrier-protein] synthase activity; zinc ion binding; enoyl-[acyl-carrier-protein] reductase (NADPH, A-specific) activity; enoyl-[acyl-carrier-protein] reductase (NADPH, B-specific) activity; [acyl-carrier-protein] S-acetyltransferase activity; drug binding; 3-oxoacyl-[acyl-carrier-protein] reductase activity; protein binding; 3-hydroxyoctanoyl-[acyl-carrier-protein] dehydratase activity; oleoyl-[acyl-carrier-protein] hydrolase activity; [acyl-carrier-protein] S-malonyltransferase activity; palmitoyl-[acyl-carrier-protein] hydrolase activity; 3-hydroxypalmitoyl-[acyl-carrier-protein] dehydratase activity Biological Process: osteoblast differentiation; vitamin metabolic process; acetyl-CoA metabolic process; pantothenate metabolic process; positive regulation of cellular metabolic process; energy reserve metabolic process; triacylglycerol biosynthetic process; cellular lipid metabolic process; fatty acid metabolic process; fatty acid biosynthetic process; water-soluble vitamin metabolic process
Research Articles on FASN	**1.** This work reveals a novel mechanism involved in protrusion formation that is dependent on transient interaction between FASN and protrudin, and establishes a creative strategy to investigate transient protein-protein interactions in mammalian cells.
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