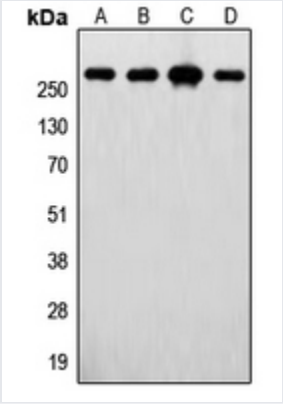
FASN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FASN, Polyclonal Antibody
Full Product Name	Anti-FASN Antibody
Product Gene Name	anti-FASN antibody
Product Synonym Names	FAS; Fatty acid synthase S-acetyltransferase; [Acyl-carrier-protein] S-malonyltransferase; 3-oxoacyl-[acyl-carrier-protein] synthase; 3-oxoacyl-[acyl-carrier-protein] reductase; 3-hydroxyacyl-[acyl-carrier-protein] dehydratase; Enoyl-[acyl-carrier-protein] reductase; Oleoyl-[acyl-carrier-protein] hydrolase]
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	273,427 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (80036214..80056106, complement). Location: 17q25
OMIM	600212
3D Structure	ModBase 3D Structure for P49327
Applications Tested/Suitable for anti-FASN antibody	Western Blot (WB), Immunoprecipitation (IP)
Related Product Information for anti-FASN antibody	Rabbit polyclonal antibody to FASN KLH-conjugated synthetic peptide encompassing a sequence within the center region of human FASN. The exact sequence is proprietary.
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	MBS9239121 is an antibody targeting FASN. Reactive in Human. Host: Rabbit.



Wester Blot (WB) of anti-FASN antibody
Dilution: WB (1/500 - 1/1000), IP (1/10 - 1/100)Western blot analysis of FASN expression in MCF7 (A), U2OS (B), SKBR3 (C), HepG2 (D) whole cell lysates.

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 Secondary Accession #	Q13479; Q16702; Q4LE83; Q6P4U5; Q6SS02; Q969R1; Q96C68; Q96IT0
UniProt Related Accession #	P49327
GenBank Nucleotide #	NM_004104.4
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; short chain dehydrogenase/reductase family 27X, member 1
NCBI Summary for FASN	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]
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.** FAS and HER2 overexpression are common in esophageal carcinomas
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