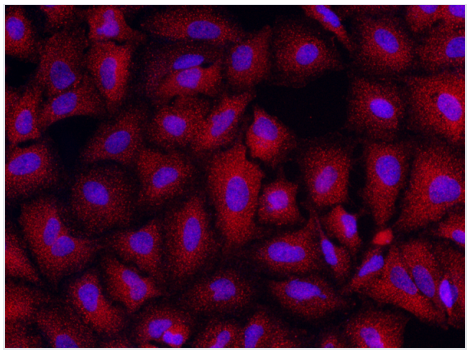
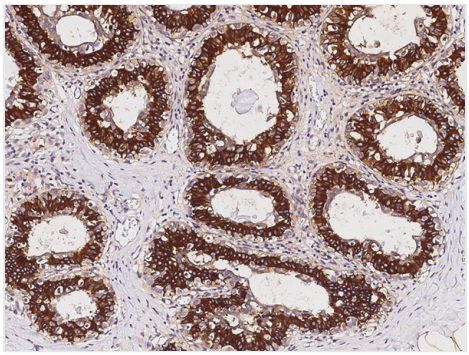
FASN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

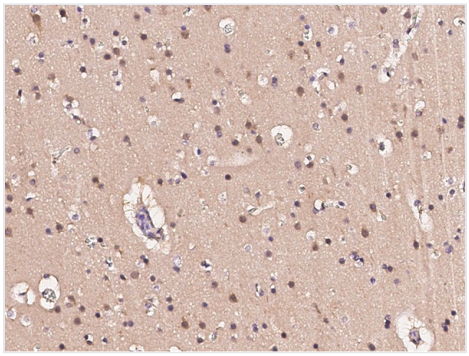
Product Name	FASN, Polyclonal Antibody
Full Product Name	Anti-FASN Antibody, Rabbit Polyclonal
Product Gene Name	anti-FASN antibody
Product Synonym Names	FASN Antibody, Rabbit PAb, Antigen Affinity Purified; fatty acid synthase; Anti-FAS Antibody; Anti-OA-519 Antibody; Anti-SDR27X1 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human FASN
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated 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
Immunogen	A synthetic peptide corresponding to the center region of the Human FASN
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human FASN, and purified by antigen affinity chromatography.
Applications Tested/Suitable for anti-FASN antibody	Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-FASN antibody	IHC-P: 1:1000-1:4000 ICC/IF: 1:300-1:10,000
Related Product Information for anti-FASN antibody	MBS8100587 is an antibody targeting FASN. Also known as Anti-FASN Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.
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.



Immunofluorescence (IF) of anti-FASN antibody
Immunofluorescence staining of FASN in A549 cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human FASN polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



Immunohistochemistry (IHC) of anti-FASN antibody
Immunochemical staining of human FASN in human breast with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).



Immunohistochemistry (IHC) of anti-FASN antibody
Immunochemical staining of human FASN in human brain with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).

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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