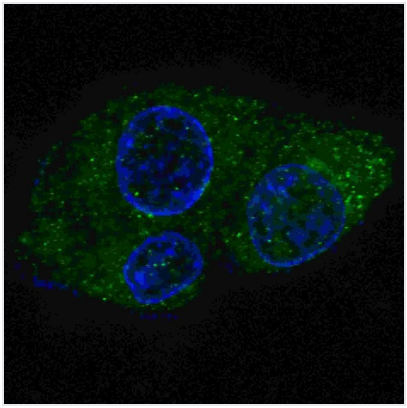
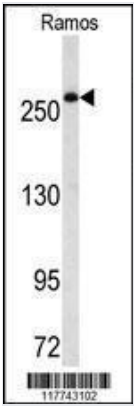
FASN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

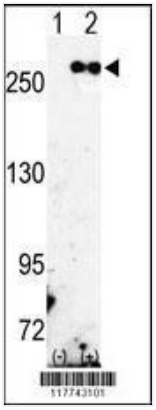
Product Name	FASN, Polyclonal Antibody
Full Product Name	FASN, ID (FAS, Fatty Acid Synthase) (MaxLight 650)
Product Gene Name	anti-FASN antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human FASN.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	273,427 Da
OMIM	600212
3D Structure	ModBase 3D Structure for P49327
Immunogen	Synthetic peptide selected from the center region of human FASN (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-FASN antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-FASN antibody	Western Blot (WB), FLISA
Application Notes for anti-FASN antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FASN antibody	MBS6475694 is an antibody targeting FASN. Also known as FASN, ID (FAS, Fatty Acid Synthase) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FASN antibody	1. Jayakumar A., Tai M.-H.Proc. Natl. Acad. Sci. USA 92:8695-8699(1995). 2. Kuhajda F.P., Jenner K.Proc. Natl. Acad. Sci. USA 91:6379-6383(1994). 3. Semenkovich C.F., Coleman T.J. Lipid Res. 36:1507-1521(1995).
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.



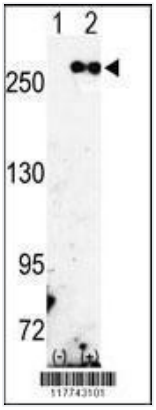
Immunofluorescence (IF) of anti-FASN antibody
Fluorescent confocal image of HepG2 cells stained with FASN (Center) antibody. HepG2 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AP7449c FASN (Center) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the FASN mainly to the mainly to the cytoplasm, supported by Human Protein Atlas Data.



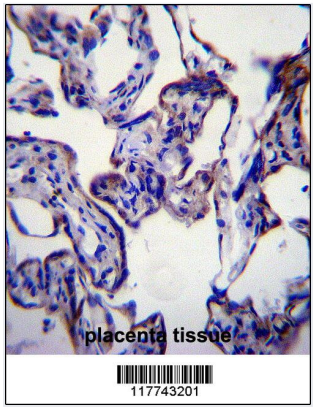
Western Blot (WB) of anti-FASN antibody
Western blot analysis of FASN Antibody (Center) in Ramos cell line lysates (35ug/lane).FASN (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-FASN antibody
Western blot analysis of FASN (arrow) using rabbit polyclonal FASN Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the FASN gene (Lane 2) (Origene Technologies).



Immunofluorescence (IF) of anti-FASN antibody
Confocal immunofluorescent analysis of FASN Antibody (Center) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).



Immunofluorescence (IF) of anti-FASN antibody
Confocal immunofluorescent analysis of FASN Antibody (Center) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

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
UniProt Primary Accession #	P49327
UniProt Secondary Accession #	Q13479; Q16702; Q4LE83; Q6P4U5; Q6SS02; Q969R1; Q96C68; Q96IT0
UniProt Related Accession #	P49327
GenBank Nucleotide #	NM_004104
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
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
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