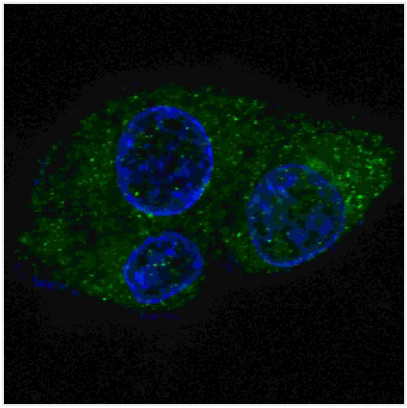
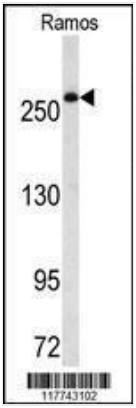
# FASN Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

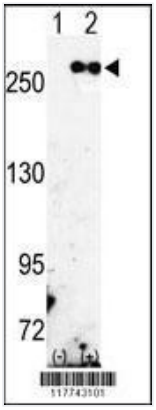
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| **Product Name** | FASN, Polyclonal Antibody |
| **Full Product Name** | FASN, ID (FAS, Fatty Acid Synthase) (MaxLight 550) |
| **Product Gene Name** | anti-FASN antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550. |
| **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: MaxLight550 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** | MaxLight550 |
| **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<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-FASN antibody** | MBS6475693 is an antibody targeting FASN. Also known as FASN, ID (FAS, Fatty Acid Synthase) (MaxLight 550). 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. |



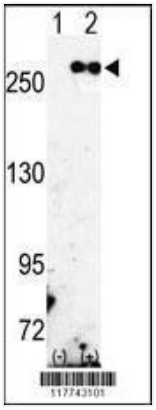
**Immunofluorescence (IF) of anti-FASN antibody**
Fluorescent confocal image of HepG2 cells stained with FASN (Center) antibody. HepG2 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AP7449c FASN (Center) primary antibody (1:200, 2 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.



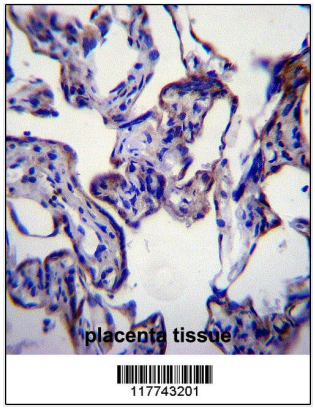

**Western Blot (WB) of anti-FASN antibody**
Western blot analysis of FASN Antibody (Center) in Ramos cell line lysates (35ug/lane).FASN (arrow) was detected using the purified Pab.




**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.

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| **NCBI GI #** | 41872631 |

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| **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.<br><br>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<br><br>Chromosomal Location of Human Ortholog: 17q25<br><br>Cellular Component: Golgi apparatus; membrane; mitochondrion; glycogen granule; cytoplasm; plasma membrane; melanosome; cytosol<br><br>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<br><br>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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