

**FASN Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7449c****Specification****FASN Antibody (Center) Blocking Peptide -  
Product Information**Primary Accession [P49327](#)**FASN Antibody (Center) Blocking Peptide -  
Additional Information****Gene ID** 2194**Other Names**

Fatty acid synthase, [Acyl-carrier-protein]  
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, FASN, FAS

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7449c](/products/AP7449c) was selected from the Center region of human FASN. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**FASN Antibody (Center) Blocking Peptide -  
Background**

FASN 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.

**FASN Antibody (Center) Blocking Peptide -  
References**

Jayakumar A., Tai M.-H. Proc. Natl. Acad. Sci. U.S.A. 92:8695-8699(1995) Kuhajda F.P., Jenner K. Proc. Natl. Acad. Sci. U.S.A. 91:6379-6383(1994) Semenkovich C.F., Coleman T.J. Lipid Res. 36:1507-1521(1995)

**FASN Antibody (Center) Blocking Peptide -  
Protein Information****Name** FASN**Synonyms** FAS**Function**

Fatty acid synthetase is a multifunctional enzyme that catalyzes the de novo biosynthesis of long-chain saturated fatty acids starting from acetyl-CoA and malonyl-CoA in the presence of NADPH. This multifunctional protein contains 7 catalytic activities and a site for the binding of the prosthetic group 4'-phosphopantetheine of the acyl carrier protein ([ACP]) domain.

**Cellular Location**

Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

**Tissue Location**

Ubiquitous. Prominent expression in brain, lung, liver and mammary gland.

**FASN Antibody (Center) Blocking Peptide -  
Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)