

FASN

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 272kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human FASN

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

fj

Synonym:

FASN;FAS;MGC14367;MGC15706;OA-519;SDR27X1 ;

Catalog #: A0461

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 2194

Isotype: IgG

Swiss Prot: P49327

Purity: Affinity purification

For research use only.

Background:

Fatty acid synthase (FASN) catalyzes the synthesis of long-chain fatty acids from acetyl-CoA and malonyl-CoA. FASN is active as a homodimer with seven different catalytic activities and produces lipids in the liver for export to metabolically active tissues or storage in adipose tissue. In most other human tissues, FASN is minimally expressed since they rely on circulating fatty acids for new structural lipid synthesis (1). Recently, increased expression of FASN has emerged as a phenotype common to most human carcinomas. In breast cancer, immunohistochemical staining showed that the levels of FASN are directly related to the size of breast tumors (2). Studies also showed that FASN is highly expressed in lung and prostate cancers and that FASN expression is an indicator of poor prognosis in breast and prostate cancer (3-5). Furthermore, inhibition of FASN is selectively cytotoxic to human cancer cells (5). Thus, increased interest has focused on FASN as a potential target for the diagnosis and treatment of cancer as well as metabolic syndrome (6,7).

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