

Product Datasheet

FASN Antibody

Catalog No: CY6597

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF IP FC



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Information

UniProt ID: P49327

All Names: FASN; FAS; MGC14367; MGC15706; OA-519; SDR27X1; Fatty acid synthase;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 273 kDa

Application

WB 1:1000~1:2000

IHC 1:50~1:200

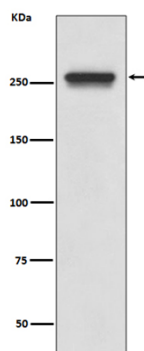
ICC/IF 1:50~1:200

IP 1:50

FC 1:50

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. 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. 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. Furthermore, inhibition of FASN is selectively cytotoxic to human cancer cells. Thus, increased interest has focused on FASN as a potential target for the diagnosis and treatment of cancer as well as metabolic syndrome.



Western blot analysis of FASN expression in A549 cell lysate.

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