

FASN Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant FASN.

Catalog # AT2003a

Product Information

| | |
|-------------------|--------------------------|
| Application | WB |
| Primary Accession | P49327 |
| Other Accession | BC007909 |
| Reactivity | Human |
| Host | mouse |
| Clonality | monoclonal |
| Isotype | IgG1 Kappa |
| Clone Names | S1 |
| Calculated MW | 273427 |

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 | FASN (AAH07909, 1 a.a. ~ 439 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Dilution | WB~~1:500~1000 |
| Format | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| Precautions | FASN Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures. |

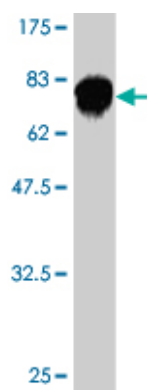
Background

The enzyme encoded by this gene 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.

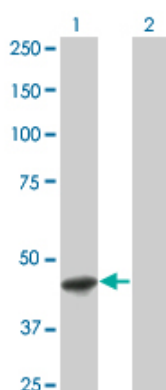
References

Fatty acid synthase polymorphisms, tumor expression, body mass index, prostate cancer risk, and survival. Nguyen PL, et al. J Clin Oncol, 2010 Sep 1. PMID 20679621. Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Ruafo G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615. Hyperglycaemia confers resistance to chemotherapy on breast cancer cells: the role of fatty acid synthase. Zeng L, et al. Endocr Relat Cancer, 2010 Jun. PMID 20356977. Extracellular fatty acid synthase: a possible surrogate biomarker of insulin resistance. Fernandez-Real JM, et al. Diabetes, 2010 Jun. PMID 20299470.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (74.03 kDa) .



Western Blot analysis of FASN expression in transfected 293T cell line by FASN monoclonal antibody (M03), clone S1.

Lane 1: FASN transfected lysate (48.3 kDa).
Lane 2: Non-transfected lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.