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FASN Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant FASN.
Catalog # AT2002a

Product Information

Application	WB, IHC, IF, IP
Primary Accession	P49327
Other Accession	BC007909
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3F2-1F3
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 IHC~~1:100~500 IF~~1:50~200 IP~~N/A
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) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

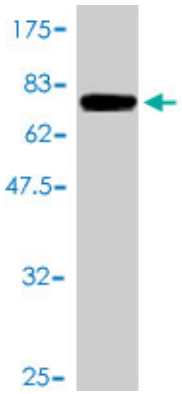
Background

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.

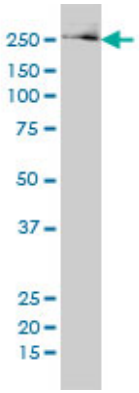
References

1.Old proteins - new locations: myoglobin, haemoglobin, neuroglobin and cytoglobin in solid tumours and cancer cells.Gorr TA, Wichmann D, Pilarsky C, Theurillat JP, Fabrizius A, Laufs T, Bauer T, Koslowski M, Horn S, Burmester T, Hankeln T, Kristiansen G.Acta Physiol (Oxf). 2011 Jul;202(3):563-581.2.Endogenous myoglobin in human breast cancer is a hallmark of luminal cancer phenotype.Kristiansen G, Rose M, Geisler C, Fritzsche FR, Gerhardt J, Luke C, Ladhoff AM, Knuchel R, Dietel M, Moch H, Varga Z, Theurillat JP, Gorr TA, Dahl E.Br J Cancer. 2010 Jun 8;102(12):1736-45.

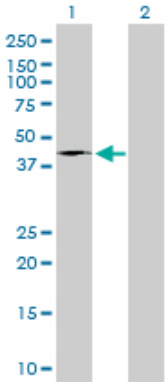
Images



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

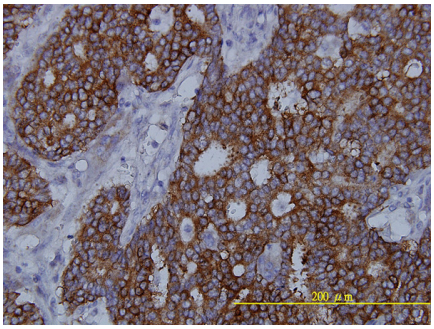


FASN monoclonal antibody (M01), clone 3F2-1F3 Western Blot analysis of FASN expression in 293 ((Cat # AT2002a)

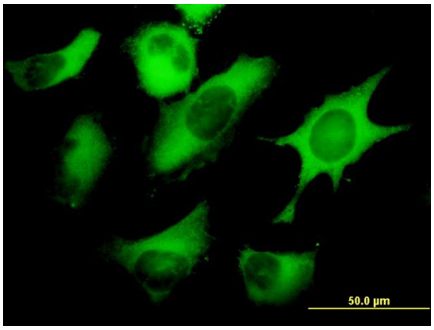


Western Blot analysis of FASN expression in transfected 293T cell line by FASN monoclonal antibody (M01), clone 3F2-1F3.

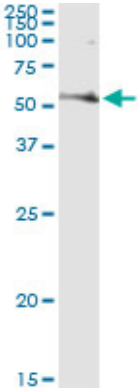
Lane 1: FASN transfected lysate(48.3 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to FASN on formalin-fixed paraffin-embedded human breast cancer tissue. [antibody concentration 10 ug/ml]



Immunofluorescence of monoclonal antibody to FASN on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of FASN transfected lysate using anti-FASN monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with FASN MaxPab rabbit polyclonal antibody.

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