Datasheet for ABIN3044520

anti-Fatty Acid Synthase antibody (AA 1-226)

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Overview

Quantity:	100 µg
Target:	Fatty Acid Synthase (FASN)
Binding Specificity:	AA 1-226
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Fatty acid synthase(FASN) detection. Tested with WB, IHC-P in Human.
Immunogen:	E. coli-derived human FASN recombinant protein (Position: M1-E226). Human FASN shares 90.3% and 90.7% amino acid (aa) sequence identity with mouse and rat FASN, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Fatty acid synthase(FASN) detection. Tested with WB, IHC-P in Human. Gene Name: fatty acid synthase Protein Name: Fatty acid synthase
Purification:	Immunogen affinity purified.

Target Details

Target:	Fatty Acid Synthase (FASN)
Alternative Name:	FASN (FASN Products)
Background:	Fatty acid synthase (FAS) is an enzyme that in humans is encoded by the FASN gene. It is mapped to 17q25. 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. Synonyms: [Acyl-carrier-protein] S acetyltransferase antibody|[Acyl-carrier-protein] S malonyltransferase antibody|3-hydroxypalmitoyl-[acyl-carrier-protein] dehydratase antibody|3-oxoacyl-[acyl-carrier-protein] reductase antibody|3-oxoacyl-[acyl-carrier-protein] synthase antibody|Enoyl-[acyl-carrier-protein] reductase antibody|FAS antibody|FAS_HUMAN antibody|FASN antibody|Fatty acid synthase antibody| MGC14367 antibody|MGC15706 antibody|OA 519 antibody|Oleoyl-[acyl-carrier-protein] hydrolase antibody|SDR27X1 antibody|Short chain dehydrogenase/reductase family 27X member 1 antibody
Gene ID:	2194
UniProt:	P49327
Pathways:	AMPK Signaling

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

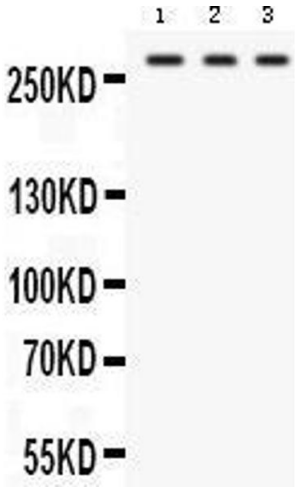
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

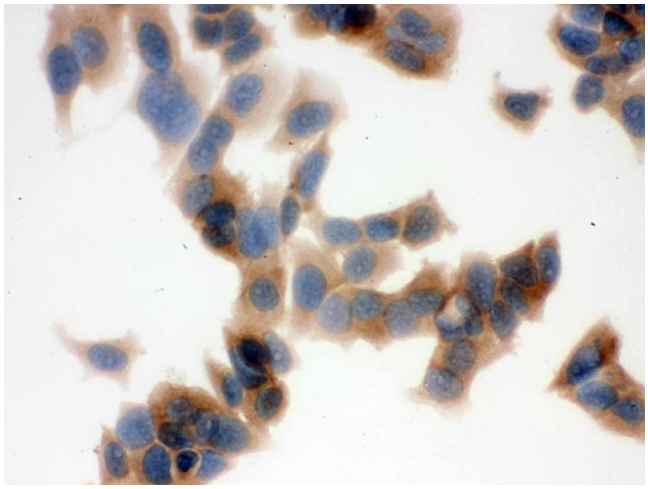
Product cited in:	Lu, Ma, Cai: "Increased HAGLR expression promotes non-small cell lung cancer proliferation and invasion via enhanced de novo lipogenesis." in: **Tumour biology**, Vol. 39, Issue 4, pp. 1010428317697570, (2017) (PubMed).

Images



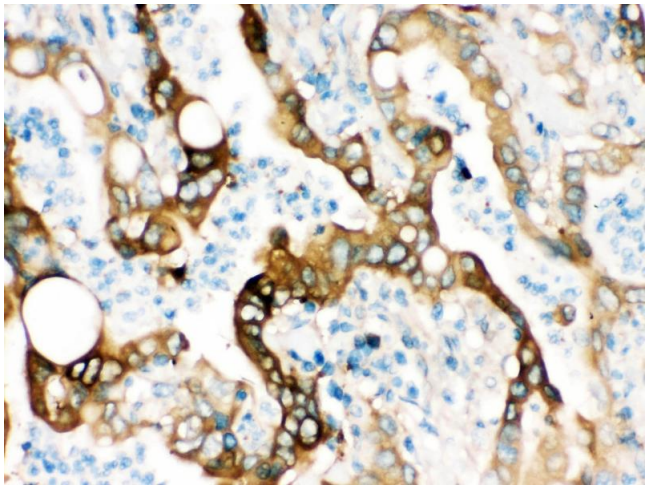
Western Blotting

Image 1. Western blot analysis of FASN expression in HEPG2 whole cell lysates (lane 1), U87 whole cell lysates (lane 2) and RAJI whole cell lysates (lane 3). FASN at 273KD was detected using rabbit anti- FASN Antigen Affinity purified polyclonal antibody at0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method



Immunohistochemistry

Image 2. IHC analysis of FASN using anti-FASN antibody . FASN was detected in immunocytochemical section of MCF-7 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-FASN Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. FASN was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- FASN Antigen Affinity purified polyclonal antibody at 1 µg/mL. The immunohistochemical section was developed using SABC method

Please check the product details page for more images. Overall 4 images are available for ABIN3044520.