

Datasheet for ABIN968279

anti-Fatty Acid Synthase antibody (AA 9-202)

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Overview

| | |
|----------------------|--|
| Quantity: | 150 µg |
| Target: | Fatty Acid Synthase (FASN) |
| Binding Specificity: | AA 9-202 |
| Reactivity: | Human, Mouse, Rat, Dog, Rabbit |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Fatty Acid Synthase antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

Product Details

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|-------------------|---|
| Immunogen: | Human Fatty Acid Synthase aa. 9-202 |
| Clone: | 23-Fatty Acid Synthase |
| Isotype: | IgG1 |
| Cross-Reactivity: | Dog (Canine), Mouse (Murine), Rabbit, Rat (Rattus) |
| Characteristics: | <ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States. |
| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity |

Product Details

chromatography.

Target Details

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|-------------------|--|
| Target: | Fatty Acid Synthase (FASN) |
| Alternative Name: | Fatty Acid Synthase (FASN Products) |
| Background: | <p>Fatty acid biosynthesis occurs in all living organisms and provides essential components of biological membranes as well as a form of energy storage. Animal fatty acid synthase (FAS) is a multifunctional enzyme that catalyzes the synthesis of long-chain fatty acids via sequential condensation of two-carbon units from malonyl-CoA, an intermediate derived from the carboxylation of Acetyl-CoA. FAS is a homodimer of a multifunctional subunit protein that contains seven distinct activities and a site for the prosthetic group 4'-phosphopantetheine (acyl carrier protein). These domains are oriented from N-terminus to C-terminus as follows: beta-keto-acyl synthase, acetyl and malonyl transacylases, enoyl reductase, ketoacyl reductase, acyl carrier protein, and thioesterase. Although all domains are found on each subunit, they are only active following the homodimerization of subunits in an antiparallel (head-to-tail) orientation. This juxtaposition and cooperation between domains forms two centers for acyl chain assembly. Alternative substrates and chain-terminating mechanisms allow for the production of a variety of fatty acids with different lengths and structures.</p> |
| Molecular Weight: | 265 kDa |
| Pathways: | AMPK Signaling |

Application Details

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|---------------|--|
| Comment: | Related Products: ABIN968587, ABIN967389 |
| Restrictions: | For Research Use only |

Handling

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|--------------------|---|
| Format: | Liquid |
| Concentration: | 250 µg/mL |
| Buffer: | Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

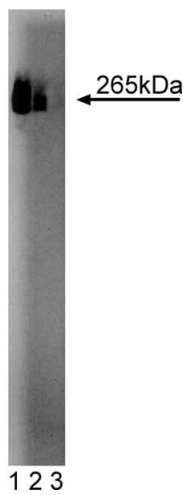
Handling

| | |
|------------------|--|
| | should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store undiluted at -20° C. |

Publications

| | |
|-------------------|--|
| Product cited in: | <p>Chirala, Huang, Jayakumar, Sakai, Wakil: "Animal fatty acid synthase: functional mapping and cloning and expression of the domain I constituent activities." in: Proceedings of the National Academy of Sciences of the United States of America, Vol. 94, Issue 11, pp. 5588-93, (1997) (PubMed).</p> <p>Jayakumar, Tai, Huang, al-Feel, Hsu, Abu-Elheiga, Chirala, Wakil: "Human fatty acid synthase: properties and molecular cloning." in: Proceedings of the National Academy of Sciences of the United States of America, Vol. 92, Issue 19, pp. 8695-9, (1995) (PubMed).</p> <p>Smith: "The animal fatty acid synthase: one gene, one polypeptide, seven enzymes." in: FASEB journal : official publication of the Federation of American Societies for Experimental Biology, Vol. 8, Issue 15, pp. 1248-59, (1995) (PubMed).</p> |
|-------------------|--|

Images



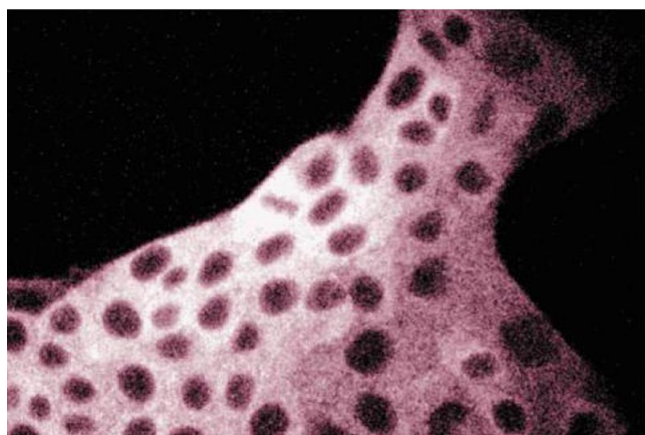
Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of Fatty Acid Synthase on HepG2 cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-FAS antibody.



Immunofluorescence

Image 3. Immunofluorescent staining of MDCK cells with anti-FAS antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968279.