10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Fatty acid synthase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1520

Specification

KD-Validated Anti-Fatty acid synthase Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P49327
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 273 kDa, observed,273 kDa KDa**
Gene Name	**FASN**
Aliases	**FASN; Fatty Acid Synthase; FAS; SDR27X1; Short Chain Dehydrogenase/Reductase Family 27X, Member 1; 3-Hydroxyacyl-[Acyl-Carrier-Protein] Dehydratase; [Acyl-Carrier-Protein] S-Malonyltransferase; [Acyl-Carrier-Protein] S-Acetyltransferase; 3-Oxoacyl-[Acyl-Carrier-Protein] Reductase; 3-Oxoacyl-[Acyl-Carrier-Protein] Synthase; Enoyl-[Acyl-Carrier-Protein] Reductase; Acyl-[Acyl-Carrier-Protein] Hydrolase; Type I Fatty Acid Synthase; EC 2.3.1.85; EC 6.3.3.1; EC 2.3.1; OA-519**
Immunogen	**A synthesized peptide derived from human FASN**

KD-Validated Anti-Fatty acid synthase Rabbit Monoclonal Antibody - Additional Information

Gene ID	**2194**

Other Names
Fatty acid synthase, 2.3.1.85, Type I fatty acid synthase, [Acyl-carrier-protein] S-acetyltransferase, 2.3.1.38, [Acyl-carrier-protein] S-malonyltransferase, 2.3.1.39, 3-oxoacyl-[acyl-carrier-protein] synthase, 2.3.1.41, 3-oxoacyl-[acyl-carrier-protein] reductase, 1.1.1.100, 3-hydroxyacyl-[acyl-carrier-protein] dehydratase, 4.2.1.59, Enoyl-[acyl-carrier-protein] reductase, 1.3.1.39, Acyl-[acyl-carrier-protein] hydrolase, 3.1.2.14, FASN, FAS

KD-Validated Anti-Fatty acid synthase Rabbit Monoclonal Antibody - Protein Information

Name FASN

Synonyms FAS

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Function
Fatty acid synthetase is a multifunctional enzyme that catalyzes the de novo biosynthesis of long-chain saturated fatty acids starting from acetyl-CoA and malonyl-CoA in the presence of NADPH. This multifunctional protein contains 7 catalytic activities and a site for the binding of the prosthetic group 4'-phosphopantetheine of the acyl carrier protein ([ACP]) domain.

Cellular Location
Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

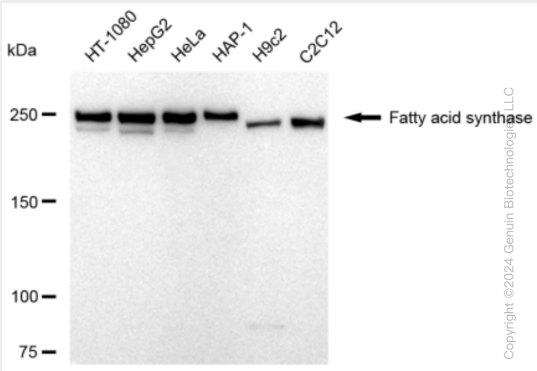
Tissue Location
Ubiquitous. Prominent expression in brain, lung, liver and mammary gland.

KD-Validated Anti-Fatty acid synthase Rabbit Monoclonal Antibody - Protocols

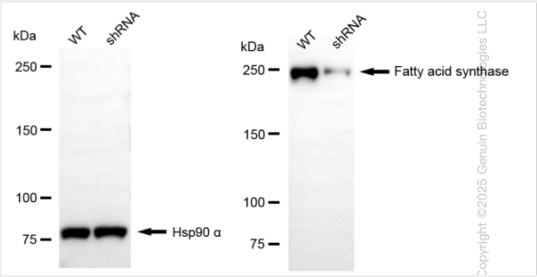
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Fatty acid synthase Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Fatty acid synthase antibody (Cat#AGI1520). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Fatty acid synthase antibody (Cat#AGI1520, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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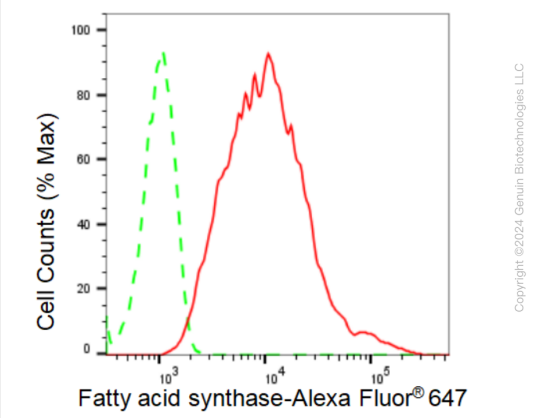
Western blotting analysis using anti-Fatty acid synthase antibody (Cat#AGI1520). Fatty acid synthase expression in wild type (WT) and Fatty acid synthase(FASN) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Fatty acid synthase antibody (Cat#AGI1520, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Fatty acid synthase expression in HepG2 cells using Fatty acid synthase antibody (Cat#AGI1520, 1:2,000). Green, isotype control; red, Fatty acid synthase.