FASN Recombinant Rabbit Monoclonal Antibody (10H14L16)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	10H14L16
Conjugate	Unconjugated
Immunogen	Protein corresponding to Human FASN (aa 2200-2470)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2633056

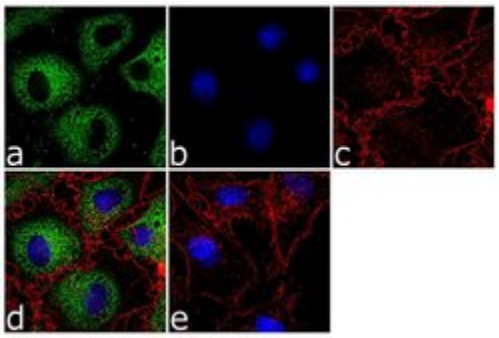
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2 µg/mL	-
Immunofluorescence (IF)	2 µg/mL	-
Western Blot (WB)	1-2 µg/mL	-

Product Specific Information

This antibody is predicted to react with Monkey and galago.

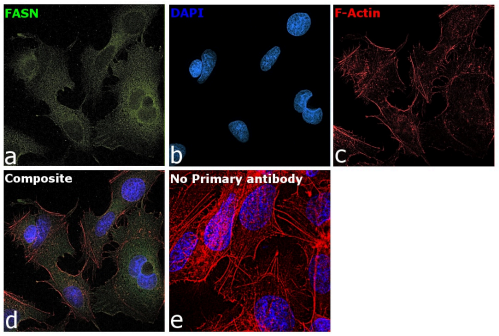
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For FASN Recombinant Rabbit Monoclonal Antibody (10H14L16)



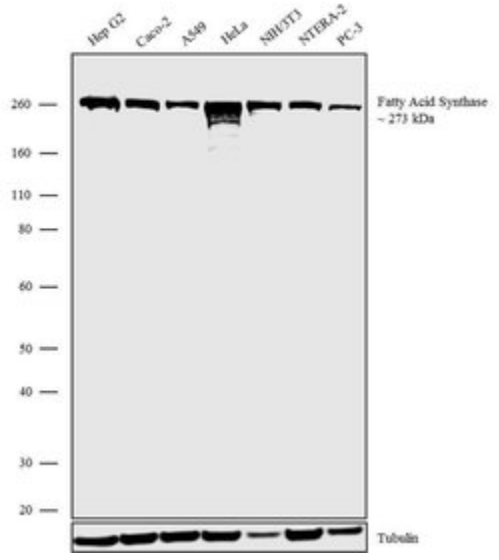
FASN Antibody (702060) in IF

For immunofluorescence analysis, Hep G2 cells were fixed and permeabilized for detection of endogenous Fatty acid synthase using Fatty Acid Synthase Recombinant Rabbit Monoclonal Antibody (Product # 702060, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Fatty acid synthase protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating cytoplasmic localization of Fatty acid synthase. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



FASN Antibody (702060) in ICC

Immunofluorescence analysis of FASN was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with FASN Recombinant Rabbit Monoclonal Antibody (10H14L16) (Product # 702060) at 2 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



FASN Antibody (702060) in WB

Western blot analysis was performed on Membrane enriched extracts (30 µg lysate) of Hep G2 (Lane 1), Caco-2 (Lane 2), A549 (Lane 3), HeLa (Lane 4), NIH/3T3 (Lane 5), NTERA-2 (Lane 6) and PC-3 (Lane 7). The blots were probed with Anti-Fatty Acid Synthase Recombinant Rabbit Monoclonal Antibody (Product # 702060, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 273 kDa band corresponding to Fatty Acid Synthase was observed across the cell ines tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with wet transfer method. The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

View more figures on thermofisher.com