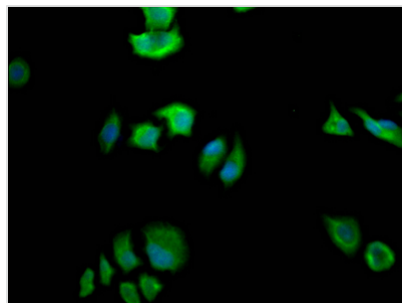




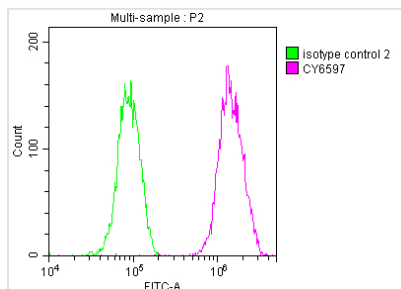
# FASN Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA240595A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P49327
<b>Immunogen</b>	A synthesized peptide derived from human FASN
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IF, FC; Recommended dilution: IF:1:20-1:200, FC:1:20-1:200
<b>Relevance</b>	Fatty acid synthetase catalyzes the formation of long-chain fatty acids from acetyl-CoA, malonyl-CoA and NADPH. This multifunctional protein has 7 catalytic activities and an acyl carrier protein.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Neuroscience; Cancer; Cardiovascular; Metabolism; Signal transduction
<b>Gene Names</b>	FASN
<b>Clone No.</b>	2A5

## Image



Immunofluorescence staining of HeLa Cells with CSB-RA240595A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Overlay histogram showing A549 cells stained with CSB-RA240595A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ( $1\mu\text{g}/1 \times 10^6$  cells) for 1 h at 4?. The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4?. Control antibody (green line) was Rabbit IgG ( $1\mu\text{g}/1 \times 10^6$  cells) used under the same conditions. Acquisition of >10,000 events was performed.

## Description

FASN is an enzyme that is responsible for fatty acid synthesis in an NADPH-dependent reaction in mammalian cells. FASN functions as a major regulator of lipogenesis and plays an important role in the growth and survival of tumors with lipogenic phenotypes. FASN facilitates the synthesis of endogenous fatty acids, which provide energy for the proliferation of tumor cells. Upregulation of FASN has been identified in multiple types of human cancers, including breast, bladder, and prostate cancers, and is associated with clinical aggressiveness, poor prognosis, and resistance to therapy.

The recombinant FASN antibody was produced by cloning antibody genes into an expression vectors, which were subsequently introduced into mammalian cells to provide animal-free antibody production. This FASN antibody has been validated in ELISA, IF, FC. It has the features of improved affinity, stability, and consistency between different batches.