## #3180 store at -200

## Fatty Acid Synthase (C20G5) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> WB, IP, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 273	Source/Isotype: Rabbit IgG	UniProt ID: #P49327	Entrez-Gene Id: 2194
Product Usage Information	Ą	oplication		Dilution		
	W	estern Blotting		1:1000		
	Im	munoprecipitation			1:	50
	Im	Immunohistochemistry (Paraffin)			1:50 - 1:200	
	Im	munofluorescence (	Immunocytochen	1:50		
Storage		oplied in 10 mM sodi 2% sodium azide. Si	.,	μg/ml BSA, 50% glyc ⁄.	erol and less than	
Specificity / Sensitivity		Fatty Acid Synthase (C20G5) Rabbit mAb detects endogenous levels of total fatty acid synthase protein. Reactivity by immunofluorescence is human only.				
Species predicted treact based on 100 sequence homolog	%	vine				
Source / Purification		Fatty Acid Synthase (C20G5) Rabbit mAb is produced by immunizing rabbits with a synthetic peptide around Gly46 corresponding to the sequence of human fatty acid synthase.				
Fatty acid synthase (FASN) catalyzes the synthesis of long-chain fato CoA. FASN is active as a homodimer with seven different catalytic at for export to metabolically active tissues or storage in adipose tissue is minimally expressed since they rely on circulating fatty acids for an According to the research literature, increased expression of FASN to most human carcinomas. For example in breast cancer, immunoh levels of FASN are directly related to the size of breast tumors (2). FASN is highly expressed in lung and prostate cancers and that FAS prognosis in breast and prostate cancer (3-5). Furthermore, inhibition human cancer cells (5). Thus, increased interest has focused on FASN diagnosis and treatment of cancer as well as metabolic syndrome (6).				tic activities and production activities and product of new structural lipid SN has emerged as a nohistochemical stain. Research studies a FASN expression is a pition of FASN is selected.	ices lipids in the liver man tissues, FASN synthesis (1). phenotype common ing showed that the ilso showed that in indicator of poor ctively cytotoxic to	
1. Katsurada, A. et al. (1990) Eur J 2. Wells, W.A. et al. (2006) Breast 3. Kawamura, T. et al. (2005) Patho 4. Shah, U.S. et al. (2006) Hum Pa 5. Kuhajda, F.P. (2000) Nutrition 16 6. Tian, W.X. (2006) Curr Med Che 7. Kusunoki, J. et al. (2006) Endoc				er Res Treat 98, 231-40. gy 72, 233-240. 7, 401-409. 8. 967-977.		

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

Fatty Acid Synthase (C20G5) Rabbit mAb (#3180) Datasheet Without Images Cell Signaling Technology

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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