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

Fatty Acid Synthase (C20G5) Rabbit mAb

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 273	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P49327	Entrez-Gene Id: 2194	
Product Usage Information	We Imi Imi	plication estern Blotting munoprecipitation munohistochemistry	· · ·		1 1 1	<b>vilution</b> :1000 :50 :50 - 1:200	
Storage	Sup	Immunofluorescence (Immunocytochemistry) 1:50 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliguot the antibody.					
Specificity / Sensiti		Fatty Acid Synthase (C20G5) Rabbit mAb detects endogenous levels of total fatty acid synthase protein. Reactivity by immunofluorescence is human only.					
Species predicted t react based on 100 sequence homolog	%	ine					
Source / Purificatio		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.					
Background	CoA for e is m Acc to m leve FAS prog hum	Fatty acid synthase (FASN) catalyzes the synthesis of long-chain fatty acids from acetyl-CoA and malonyl- CoA. FASN is active as a homodimer with seven different catalytic activities and produces lipids in the liver for export to metabolically active tissues or storage in adipose tissue. In most other human tissues, FASN is minimally expressed since they rely on circulating fatty acids for new structural lipid synthesis (1). According to the research literature, increased expression of FASN has emerged as a phenotype common to most human carcinomas. For example in breast cancer, immunohistochemical staining showed that the levels of FASN are directly related to the size of breast tumors (2). Research studies also showed that FASN is highly expressed in lung and prostate cancers and that FASN expression is an indicator of poor prognosis in breast and prostate cancer (3-5). Furthermore, inhibition of FASN is selectively cytotoxic to human cancer cells (5). Thus, increased interest has focused on FASN as a potential target for the diagnosis and treatment of cancer as well as metabolic syndrome (6,7).					
Background Refere	2. W 3. K 4. S 5. K 6. T	atsurada, A. et al. (1' Vells, W.A. et al. (200 awamura, T. et al. (200 hah, U.S. et al. (200 hahjda, F.P. (2000) <i>N</i> ian, W.X. (2006) <i>Cur</i> usunoki, J. et al. (20	6) Breast Cance 005) Pathobiolo 6) Hum Pathol 3 Jutrition 16, 202- r Med Chem 13,	er Res Treat 98, 231-40. gy 72, 233-240. 7, 401-409. 8. 967-977.			
Species Reactivity	Spec	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., w	estern blot).	
Western Blot Buffe		DRTANT: For western 5 Tween® 20 at 4°C v		membrane with diluted ng, overnight.	primary antibody in 5 <sup>0</sup>	% w/v BSA, 1X TBS,	
Applications Key		: Western Blotting <b>IP</b> C: Immunofluorescer		tation <b>IHC-P:</b> Immunohi chemistry)	stochemistry (Paraffin	1)	
Cross-Reactivity K	еу		. ,				

5/13/24, 10:46 AM	<ul> <li>Fatty Acid Synthase (C20G5) Rabbit mAb (#3180) Datasheet Without Images Cell Signaling Technology</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
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