

THEM2 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	15	Rabbit	#Q9NPJ3	55856
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		THEM2 Antibody recognizes endogenous levels of total THEM2 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human THEM2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		THEM2 is a homotetrameric fatty acyl–CoA thioesterase (1). THEM2 and PC-TP (phosphatidylcholine transfer protein), both enriched in liver, interact to form a complex (1). Cell membrane-bound phosphatidylcholines bind to PC-TP in the complex (1). The complex in turn inhibits IRS-2 and mTORC1, which leads to the suppression of insulin signaling (1). THEM2 has also been shown to regulate adaptive thermogenesis in mice (2).				
Background References		1. Ersoy, B.A. et al. (2013) <i>Sci Signal</i> 6, ra64. 2. Kang, H.W. et al. (2013) <i>J Biol Chem</i> 288, 33376-86.				
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse	R: Rat Mk: Monkey			
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