## Phospho-AMPKα1 (Ser485) Antibody



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

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Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 62	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q13131	Entrez-Gene Id: 5562
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM soc 20°C. Do not aliquot th		), 150 mM NaCl, 100 µg/	/ml BSA and 50% gly	/cerol. Store at –
Specificity/Sen	sitivity			cts endogenous levels c s-react with phosphoryl		
Species predict based on 100% homology		Chicken				
Source / Purific	cation		dues surrounding S	munizing animals with a er485 of human AMPKɑ		
Background		key role in the regulatic catalytic $\alpha$ subunit and genes ( $\alpha$ 1, 2; $\beta$ 1, 2; $\gamma$ 1, environmental stress, association with acces activation loop, and the phosphorylated at Thrisignificance of these ptranslationally modified Ser101, Ser108, and Sector AMPK activation, while mutations in AMPK version in AMPK version and cause glycogen activated at AMPK not only restrict the sector of the secto	ion of energy home I regulatory β and γ 2, 3) (2). The kinase such as heat shock sory proteins STRAI is phosphorylation 258 and Ser485 (fo hosphorylation eve d by myristoylation er182 (6,7). Phospho e phosphorylation a ubunits have been i bateman domains). ccumulation in hear gulates the metabo	ghly conserved from ye ostasis (1). AMPK is a he subunits, each of which is activated by an eleva hypoxia, and ischemia D and MO25, phosphory is required for AMPK ac r α1; Ser491 for α2). The nts have yet to be eluci- and multi-site phosphor orylation at Ser108 of th t Ser24/25 and Ser182 a dentified, most of which Mutations at these sites t or skeletal muscle (1,2 lism of fatty acids and g d TSC2/mTOR pathways	eterotrimeric compl h is encoded by two ated AMP/ATP ratio (1). The tumor supp ylates AMPK $\alpha$ at Thr trivation (3-5). AMPK e upstream kinase a dated (6). The $\beta$ 1 su prylation including S ep $\beta$ 1 subunit seems affects AMPK localiz h are located in the s lead to reduction of 2). Accumulating evic glycogen, but also m	ex composed of a or three distinct due to cellular and oressor LKB1, in 172 in the (a is also nd the biological bunit is post- cer24/25, Ser96, to be required for ation (7). Several putative AMP/ATP of AMPK activity dence indicates nodulates protein
Background Re	eferences	1. Hardie, D.G. (2004) <i>J</i> 2. Carling, D. (2004) <i>Tr</i> 3. Hawley, S.A. et al. (1 4. Lizcano, J.M. et al. (2 5. Shaw, R.J. et al. (200 6. Woods, A. et al. (200 7. Warden, S.M. et al. (	ends Biochem Sci 2 996) J Biol Chem 27 2004) EMBO J 23, 83 4) Proc Natl Acad Sc 3) J Biol Chem 278,	9, 18-24. 1, 27879-87. 3-43. <i>ci USA</i> 101, 3329-35. 28434-42.		
Species Reactiv	vity	Species reactivity is de	termined by testing	j in at least one approve	ed application (e.g.,	western blot).
Western Blot B	Buffer	IMPORTANT: For weste TBS, 0.1% Tween® 20		membrane with diluted haking, overnight.	primary antibody ir	າ 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting				
Cross-Reactivit	ty Key	H: Human M: Mouse F	<b>R:</b> Rat <b>Mk:</b> Monkey			

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