#2716 Store at -200

MO25α/CAB39 (C49D8) Rabbit



Orders: 877-616-CELL (2355)

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Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 39	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y376	Entrez-Gene Id: 51719
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting		1:1000		
	Im	munoprecipitation		1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensiti		MO25 α /CAB39 (C49D8) Rabbit mAb detects endogenous levels of total MO25 α /CAB39 and MO25 β /CAB39L proteins.				
Source / Purificatio	Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human MO25α/CAB39.					esponding to the
Background	Whi cata acti prot with help	AMPK (AMP-activated protein kinase) is a key cellular component that regulates energy homeostasis (1,2). When the AMP/ATP ratio is increased due to energy depletion, AMPK is phosphorylated at its $\alpha 1$ and $\alpha 2$ catalytic subunits and activated (3). Studies showed that the tumor suppressor LKB1 phosphorylates and activates AMPK in mammals (4,5). MO25 α (mouse protein 25 α), also called CAB39 (calcium binding protein 39), is a component of the LKB1 complex <i>in vivo</i> (5,6). MO25 α /CAB39 does not directly interact with LKB1; instead, it is physically associated with STRAD α (6). Together MO25 α /CAB39 and STRAD α help anchor LKB1 in the cytoplasm (6). MO25 α /CAB39 stablizes the LKB1-STRAD α complex and further increases the catalytic activity of LKB1 (6).				
Background Refere	2. H 3. L 4. W 5. H	 Hardie, D.G. et al. (2003) FEBS Lett 546, 113-20. Hardie, D.G. (2004) J Cell Sci 117, 5479-87. Lizcano, J.M. et al. (2004) EMBO J 23, 833-43. Woods, A. et al. (2003) Curr Biol 13, 2004-8. Hawley, S.A. et al. (2003) J Biol 2, 28. Boudeau, J. et al. (2003) EMBO J 22, 5102-14. 				

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,

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

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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