LCMT1 (4A4) Mouse mAb



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Applications: WB, IP	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 39	Source/Isotype: Mouse IgG1	UniProt ID: #A2RTH5	Entrez-Gene Id 30949	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Imi	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 / Sensitivity		LCMT1 (4A4) Mouse mAb recognizes endogenous levels of total LCMT1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to mouse LCMT1 protein.				pecific to mouse	
Background	met ana ena of P acti end	Leucine carboxyl methyltransferase-1 (LCMT1) is an important mammalian methyltransferase that methylates the catalytic C subunit of protein phosphatase 2A (PP2A) at Leu309 (1,2). X-ray crystallography analysis reveals that the structural integrity of human LCMT1 and cofactor S-adenosylmethionine complex enables proper interaction with PP2A (3). Evidence suggests that functional LCMT1 is crucial for the ability of PP2A to form heterotrimers with the B/B55 and B α family of regulatory subunits (4,5). Impaired LCMT1 activity is shown to disrupt mitosis and cell survival (5). In neurodegenerative models, increases in endogenous levels of LCMT1, methylated PP2A (C), and B α induce the development and differentiation of neuroblastoma cells (5-7).					
Background Refer	2. L 3. T 4. S 5. L 6. S	ee, J. and Stock, J. sai, M.L. et al. (2011 child, A. et al. (2006 ee, J.A. and Pallas, ontag, E. et al. (200	d Clarke, S. (1994) Biochem Biophys Res Commun 203, 1710-5. d Stock, J. (1993) J Biol Chem 268, 19192-5. et al. (2011) Acta Crystallogr D Biol Crystallogr 67, 14-24. et al. (2006) Int J Dev Neurosci 24, 437-43. and Pallas, D.C. (2007) J Biol Chem 282, 30974-84 et al. (2004) J Neuropathol Exp Neurol 63, 1080-91M. et al. (2010) J Neurochem 115, 1455-65.				

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

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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