នុ AHCYL1/IRBIT (D3A5G) Rabbit mAb





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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 61	Source/Isotype: Rabbit IgG	UniProt ID: #O43865	Entrez-Gene Id: 10768		
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 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		AHCYL1/IRBIT (D3A5G) Rabbit mAb recognizes endogenous levels of total AHCYL1/IRBIT protein. This antibody does not cross-react with AHCYL2/IRBIT2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu50 of human AHCYL1/IRBIT protein.						
Background		S-adenosylhomocysteine hydrolase-like protein 1 (AHCYL1) is a member of S-adenosylhomocysteine hydrolase family, which participates in the metabolism of S-adenosyl-L-homocysteine (1). Two <i>Drosophila</i> homologs of S-adenosylhomocysteine hydrolase-like proteins, dAhcyL1 and dAhcyL2, were identified as novel components of methionine metabolism (2). dAhcyL1 and dAhcyL2 function as dominant-negative regulators of S-adenosylhomocysteine hydrolase (2). Global down-regulation of both dAhcyL1 and dAhcyL2 extended life span (2). In addition, brain-specific down regulation of dAhcyL1 extended life span (2). AHCYL1 is also known as inositol 1,4,5-trisphosphate receptor (IP ₃ R) binding protein released with IP ₃ (IRBIT) (1, 3). This protein binds to the endoplasmic reticulum calcium release channel IP ₃ R and represses its activity (1, 3). As a multifunctional regulator, AHCYL1/IRBIT can also form a complex with and suppress the activity of ribonucleotide reductase, thereby influencing the balance of deoxynucleotide triphosphates essential for DNA replication and genomic integrity (4).						
Background R	eferences	1. Jeong, W. et al. (2012) <i>PLoS One</i> 7, e49204. 2. Parkhitko, A.A. et al. (2016) <i>Genes Dev</i> 30, 1409-22. 3. Kawaai, K. et al. (2015) <i>Proc Natl Acad Sci U S A</i> 112, 5515-20. 4. Arnaoutov, A. and Dasso, M. (2014) <i>Science</i> 345, 1512-5.						
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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.				n 5% w/v nonfat		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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