-20C

## ARD1A (E1J2B) Rabbit mAb





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Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P41227	Entrez-Gene Id: 8260	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 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.			ol and less than		
Specificity/Sensitivity		ARD1A (E1J2B) Rabbit mAb recognizes endogenous levels of total ARD1A protein.					
Species predicto based on 100% homology		Hamster, Horse					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp204 of human ARD1A protein.			rresponding to		
Background		amino acetylation) and acetylation). The N-α-ac highly homologous N-c NAA11) are mutually ex (NatA) (1-3). This compl (NAA15) auxiliary prote Cys-, Pro-, and Val- amin Like ε-amino acetylation activity, cellular localiza	multiple amino ac cetyltransferase AF a-acetyltransferase cclusive catalytic su ex, which consists in, localizes to ribo no termini after ini n, amino-terminal tion, and protein-p al acetyltransferaso	tion that occurs both at id residues at the amino D1 homolog A protein ( ARD1 homolog B protei ibunits of the amino-terr of either ARD1A or ARD isomes where it function tiator methionine cleava α-amino acetylation fun protein interactions (4,5) e deficiency (NATD), which	terminus of protei ARD1A, also known in (ARD1B, also kno minal acetyltransfei 1B and the N-α-acei to acetylate Ser-, age during protein ctions to regulate p . Defects in ARD1A	ns (α-amino as NAA10) and the wn as ARD2 or rase complex tyltransferase 15 Ala-, Gly-, Thr-, translation (1-5). rotein stability, have been shown	
		ARD1B proteins regulat in multiple target prote mediated acetylation of to increased ubiquitina involved in angiogenes expression of ARD1A ur upregulation of target of acetylating and activati D1 expression (8,9). Inte autoacetylation at Lys1 tumorigenesis (9). Rese	te cell growth and tins, including the l f HIF-1 $\alpha$ at Lys532 tion and degradati is, apoptosis, cellu nder hypoxic cond genes (7). ARD1A a ng $\beta$ -catenin and $A$ erestingly, the ace 36, which is requir earch studies have	nal acetyltransferases in differentiation through a HIF-1 $\alpha$ , $\beta$ -catenin, and A under normoxic condition on of HIF-1 $\alpha$ and down- lar proliferation, and glu itions contributes to the lso promotes cell prolife AP-1 transcription factors tyltransferase activity of ed for the ability of ARD shown that ARD1 protei and colorectal cancers (	e-amino acetylation P-1 transcription fa- ons enhances bindi regulation of HIF-10 stabilization of HIF eration and tumorig s, leading to the stii ARD1A is regulated 1A to promote proli ns are over-express	of lysine residues ctors (7-9). ARD1A- ng of VHL, leading α target genes 7). Decreased -1α and genesis by mulation of cyclin I by iferation and	
Background Re	ferences	1. Arnesen, T. et al. (200 2. Arnesen, T. et al. (200 3. Pang, A.L. et al. (200 4. Van Damme, P. et al. 5. Polevoda, B. and She 6. Rope, A.F. et al. (201 7. Jeong, J.W. et al. (200 8. Lim, J.H. et al. (2006) 9. Seo, J.H. et al. (200) 10. Arnesen, T. et al. (200) 11. Ren, T. et al. (2009) 12. Yu, M. et al. (2009) 0	<ul> <li>b) BMC Biochem 7</li> <li>b) Biol Reprod 81, 3</li> <li>(2011) FEBS J 278, 1</li> <li>rman, F. (2000) J B</li> <li>Am J Hum Genet</li> <li>Cell 111, 709-20</li> <li>Cancer Res 66, 106</li> <li>Cancer Res 70, 442</li> <li>(205) Thyroid 15, 11</li> <li>Cancer Lett 264, 83</li> </ul>	7, 13. 302-9. 3822-34. <i>iol Chem</i> 275, 36479-82. <sup>8</sup> 89, 28-43. 577-82. 22-32. 31-6. 3-92.			

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	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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