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## ADAR1 (D7E2M) Rabbit mAb -20C 14175 #1



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Applications: W	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 110, 150	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P55265	Entrez-Gene Id: 103		
Product Usage Information	1	<b>Application</b> Western Blotting			Dilution 1:1000			
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/Sen	sitivity	ADAR1 (D7E2M) Rabbit mAb recognizes endogenous levels of total ADAR1 protein.						
Species predict based on 100% homology	ted to react sequence	Guinea Pig						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Trp454 of human ADAR1 protein.						
Background		Post-transcriptional p diversity in RNA and p common form of RNA RNA by the adenosine pairs with cytidine, it i to alteration in the pr can also influence RN miRNAs, affecting sub ADAR1 is ubiquitously resulting from transcri expressed in the nucl cytoplasm. The induct RNA editing in the inr development, particu	processing of RNAs, protein is achieved to a editing is the conver- e deaminase acting is interpreted as a go otein sequence, as a sequence recogn posequent RNA proce- y expressed with two ription using alterna- eus, while ADAR1L in tion of ADAR1L in re- nate immune respon- larly in hematopoie cells from destruction	such as RNA editing, is a shat is not otherwise enc ersion of adenosine (A) i on RNA (ADAR) family of guanosine by the splicing well as generation of spl ition by RNA-binding pro essing, stability, and prot o known isoforms, ADAR ative promoters and star is interferon-inducible ar esponse to cellular stress nse (1,7). In addition, AD sis and suppression of ir on in fetal liver and adult	n important mecha oded by the genom nto inosine (I) on de proteins (1-3). Since and translational a icing isoforms (1,4- teins and non-codi ein expression leve 1L (p150) and ADAI t codons. ADAR1S i d present in both t and viral infection AR1 is essential in r interferon signaling bone marrow (8,9)	anism by which ne (1,2). The most ouble-stranded ce inosine base machinery, leading 6). A-to-I editing ng RNA, such as els (2). R1S (p110), s constitutively the nucleus and the suggests a role for nammalian to protect		
Background Re	eferences	1. Zinshteyn, B. and N 2. Nishikura, K. (2006) 3. Bass, B.L. (2002) <i>Ar</i> 4. Reenan, R.A. (2001) 5. Maas, S. et al. (2006 6. Rueter, S.M. et al. (1 7. Patterson, J.B. and 8. Iizasa, H. and Nishi 9. Hartner, J.C. et al. (2	lishikura, K. (2009) I ) <i>Nat Rev Mol Cell B</i> <i>nnu Rev Biochem</i> 71 ) <i>Trends Genet</i> 17, 5 6) <i>RNA Biol</i> 3, 1-9. 1999) <i>Nature</i> 399, 7! Samuel, C.E. (1995) kura, K. (2009) <i>Nat</i> . 2009) <i>Nat Immunol</i>	<i>Wiley Interdiscip Rev Sys</i> <i>iol</i> 7, 919-31. , 817-46. 3-6. 5-80. <i>Mol Cell Biol</i> 15, 5376-88 <i>Immunol</i> 10, 16-8. 10, 109-15.	t <i>Biol Med</i> 1, 202-9.			
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human Mk: Monkey						
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