ADAR1 Antibody	
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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 110, 150	Source/Isotype: Rabbit	UniProt ID: #P55265	Entrez-Gene Id: 103	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	ADAR1 Antibody recognizes endogenous levels of total ADAR1 protein.					
Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresports residues surrounding Ala425 of human ADAR1 protein. Antibodies are purified by protein A and peptide affinity chromatography.							
Background		Post-transcriptional processing of RNAs, such as RNA editing, is an important mechanism by which diversity in RNA and protein is achieved that is not otherwise encoded by the genome (1,2). The most common form of RNA editing is the conversion of adenosine (A) into inosine (I) on double-stranded RNA by the adenosine deaminase acting on RNA (ADAR) family of proteins (1-3). Since inosine base pairs with cytidine, it is interpreted as a guanosine by the splicing and translational machinery, leading to alteration in the protein sequence, as well as generation of splicing isoforms (1,4-6). A-to-I editing can also influence RNA sequence recognition by RNA-binding proteins and non-coding RNA, such as miRNAs, affecting subsequent RNA processing, stability, and protein expression levels (2).					
		resulting from transc expressed in the nucl cytoplasm. The induc RNA editing in the inr development, particu	ription using alterna eus, while ADAR1L i tion of ADAR1L in re nate immune respon larly in hematopoie	o known isoforms, ADAF ative promoters and star s interferon-inducible ar esponse to cellular stress nse (1,7). In addition, AD sis and suppression of it on in fetal liver and adult	rt codons. ADAR1S i nd present in both t s and viral infection AR1 is essential in r nterferon signaling	s constitutively the nucleus and the suggests a role for nammalian to protect	
Background References		1. Zinshteyn, B. and Nishikura, K. (2009) <i>Wiley Interdiscip Rev Syst Biol Med</i> 1, 202-9. 2. Nishikura, K. (2006) <i>Nat Rev Mol Cell Biol</i> 7, 919-31. 3. Bass, B.L. (2002) <i>Annu Rev Biochem</i> 71, 817-46. 4. Reenan, R.A. (2001) <i>Trends Genet</i> 17, 53-6. 5. Maas, S. et al. (2006) <i>RNA Biol</i> 3, 1-9. 6. Rueter, S.M. et al. (1999) <i>Nature</i> 399, 75-80. 7. Patterson, J.B. and Samuel, C.E. (1995) <i>Mol Cell Biol</i> 15, 5376-88. 8. Iizasa, H. and Nishikura, K. (2009) <i>Nat Immunol</i> 10, 16-8. 9. Hartner, J.C. et al. (2009) <i>Nat Immunol</i> 10, 109-15.					
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Suffer			lots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X C with gentle shaking, overnight.			
Applications K	ey	W: Western Blotting					
Cross-Reactivit	у Кеу	H: Human Mk: Monkey					
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