Revision 1		
NMNAT1 (D7O4N) Rabbit mAb	Ce T E	CHNOLOGY*
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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 29	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HAN9	Entrez-Gene Id: 64802			
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100				
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 aliguot the antibody.							
Specificity/Sensit	ivity	NMNAT1 (D7O4N) Rabbit mAb recognizes endogenous levels of total NMNAT1 protein.							
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala268 of human NMNAT1 protein.							
Background		Nicotinamide mononucleotide adenylyl transferases (NMNATs) catalyze the reversible reaction of ATP with NaMN (nicotinic acid mononucleotide) or NMN (nicotinamide mononucleotide) to produce NaAD (nicotinic acid adenine dinucleotide) or NAD (nicotinamide adenine dinucleotide). NAD is an essential cofactor or substrates for many enzymes like PARP1 and Sir11 that regulate diverse cellular processes including oxidative reactions and transcription. NMNATs maintain NAD levels for internal homeostasis (1,2). NMNAT1 is localized to the nucleus and loss-of-function mutant in mice causes embryonic lethality (3). In humans, several different NMNAT1 mutations are associated with Leber congenital amaurosis (LCA), the most common cause of inherited childhood blindness (4-7).							
Background Refe	rences	1. Jayaram, H.N. et al. (2 2. Ali, Y.O. et al. (2013) 7 3. Conforti, L. et al. (201 4. Chiang, P.W. et al. (20 5. Koenekoop, R.K. et al 6. Perrault, I. et al. (2012) 7. Falk, M.J. et al. (2012)	2011) Curr Med Ch Trends Neurosci 36 1) FEBS J 278, 266 12) Nat Genet 44, . (2012) Nat Gene 2) Nat Genet 44, 9 Nat Genet 44, 10	em 18, 1962-72. 5, 632-40. 6-79. 972-4. t 44, 1035-9. 75-7. 40-5.					
Species Reactivity	y	Species reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).			
Western Blot Buf	fer	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 H	Key	H: Human							
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