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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactivity: W, IP H	Sensitivity: Endogenous	MW (kDa): 105	Source/Isotype: Rabbit IgG	UniProt ID: #075175	Entrez-Gene Id: 4849		
Product Usage Information	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	CNOT3 (E1L9S) Rabbit mAb recognizes endogenous levels of total CNOT3 protein.						
Species predicted to react based on 100% sequence homology	Mouse, Rat						
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu638 of human CNOT3 protein.						
Background	The evolutionarily conserved CCR4-NOT (CNOT) complex regulates mRNA metabolism in eukaryotic cells (1). This regulation occurs at different levels of mRNA synthesis and degradation, including transcription initiation, elongation, deadenylation, and degradation (1). Multiple components, including CNOT1, CNOT2, CNOT3, CNOT4, CNOT6, CNOT6L, CNOT7, CNOT8, CNOT9, and CNOT10 have been identified in this complex (2). In addition, subunit composition of this complex has been shown to vary among different tissues (3). Research studies indicate that CNOT3 (along with CNOT1 and CNOT2) represses early developmental transcription factor expression, helping to maintain embryonic stem (ES) cell identity in mice and humans (4). Additional studies suggest that CNOT3 plays a role in mitotic progression as it destabilizes mitotic spindle assembly protein MAD1 mRNA (5). Finally, <i>CNOT3</i> appears to act as a modifier gene affecting the penetrance of mutations causing autosomal dominant retinitis pigmentosa (6) and as a tumor suppressor associated with cases of adult T-cell acute lymphoblastic leukemia (7).						
Background References	 Denis, C.L. and Chen, J. (2003) Prog Nucleic Acid Res Mol Biol 73, 221-50. Lau, N.C. et al. (2009) Biochem J 422, 443-53. Chen, C. et al. (2011) Biochem Biophys Res Commun 411, 360-4. Zheng, X. et al. (2012) Stem Cells 30, 910-22. Takahashi, A. et al. (2012) Biochem Biophys Res Commun 419, 268-73. Venturini, G. et al. (2012) PLoS Genet 8, e1003040. De Keersmaecker, K. et al. (2013) Nat Genet 45, 186-90. 						
Species Reactivity	Species reactivity is dei	termined by testing	n in at least one approve	ed application (e.g.	western blot)		
	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						
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