

**CNOT6 (E1L8F) Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> W	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9ULM6	<b>Entrez-Gene Id:</b> 57472
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	CNOT6 (E1L8F) Rabbit mAb recognizes endogenous levels of total CNOT6 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly400 of human CNOT6 protein.	
<b>Background</b>	<p>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).</p> <p>The various CNOT proteins display different functions, with CNOT6, CNOT6L, CNOT7 and CNOT8 exhibiting 3'-5' RNase activity (2,4). Research studies indicate that the CCR4-NOT deadenylase subunits CNOT6 and CNOT6L help mediate cell survival and play a role in cell proliferation, P-body formation, and regulation of gene expression (5). Additional research evidence suggests that CNOT6 can act as a nuclear hormone receptor coactivator that associates with ZNF335 (NIF-1) to regulate expression from specific RARα regulated genes (6).</p>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Denis, C.L. and Chen, J. (2003) <i>Prog Nucleic Acid Res Mol Biol</i> 73, 221-50.</li> <li>2. Lau, N.C. et al. (2009) <i>Biochem J</i> 422, 443-53.</li> <li>3. Chen, C. et al. (2011) <i>Biochem Biophys Res Commun</i> 411, 360-4.</li> <li>4. Chen, J. et al. (2002) <i>EMBO J</i> 21, 1414-26.</li> <li>5. Mittal, S. et al. (2011) <i>Mol Biol Cell</i> 22, 748-58.</li> <li>6. Garapaty, S. et al. (2008) <i>J Biol Chem</i> 283, 6806-16.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	<b>IMPORTANT:</b> For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>W:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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