

## 68522

## CIRBP (D1M8D) Rabbit mAb



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

<b>Applications:</b> W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q14011	Entrez-Gene Id: 1153
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 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		CIRBP (D1M8D) Rabbit mAb recognizes endogenous levels of total CIRBP protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly150 of human CIRBP protein.				
Background		Cold-induced RNA-binding protein (CIRBP) is a 172-residue, multifunctional sensor protein that was first isolated as a protein induced in mouse fibroblasts cultured at 32°C (1). Conversely, CIRBP expression decreases in cells or tissues subjected to increased temperature (2). The CIRBP protein is composed of an amino-terminal RNA-binding domain and a carboxyl-terminal, glycine-rich domain (1). Stressful stimuli, such as hypoxia, heat shock, osmotic shock, or oxidative conditions, lead to translocation of CIRBP from the nucleus to cytoplasmic stress granules through a mechanism involving CIRBP methylation-dependent nuclear export (3). CIRBP plays a role in regulating apoptosis and preserving the stemness of neural stem cells at moderately low temperatures (4). Research studies demonstrate that CIRBP contributes to the regulation of circadian rhythm through post-translational modulation of CLOCK expression (5).				
Background References		<ol> <li>Nishiyama, H. et al. (1997) J Cell Biol 137, 899-908.</li> <li>Nishiyama, H. et al. (1998) Am J Pathol 152, 289-96.</li> <li>De Leeuw, F. et al. (2007) Exp Cell Res 313, 4130-44.</li> <li>Saito, K. et al. (2010) Brain Res 1358, 20-9.</li> <li>Morf, J. et al. (2012) Science 338, 379-83.</li> </ol>				
Species Reactiv	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/y nonfat				

Western Blot Buffer

IMPORTANT: 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.

**Applications Key** 

**W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key** 

H: Human

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