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CIRBP (D1M8D) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #Q14011	Entrez-Gene Id 1153
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting		1:1000		
	Imi	munoprecipitation			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensiti	city CIRBP (D1M8D) Rabbit mAb recognizes			endogenous levels of total CIRBP protein.		
Source / Purificatio		noclonal antibody is dues surrounding G	,	nunizing animals with a s	synthetic peptide corre	esponding to
Background	isola dec ami suct the nuct cells	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 Refere	2. N 3. D 4. S	 Nishiyama, H. et al. (1997) J Cell Biol 137, 899-908. Nishiyama, H. et al. (1998) Am J Pathol 152, 289-96. De Leeuw, F. et al. (2007) Exp Cell Res 313, 4130-44. Saito, K. et al. (2010) Brain Res 1358, 20-9. Morf, J. et al. (2012) Science 338, 379-83. 				

Species Reactivity

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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