e at -20C	ZPR1 (LG1) Mouse mAb					
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com			
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 51	Source/Isotype: Mouse IgG1	UniProt ID: #075312	Entrez-Gene Id 8882		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
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		ZPR1 (LG1) Mouse mAb detects endogenous levels of total ZPR1 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with purified recombinant human ZPR1.						
Background		The zinc finger protein ZPR1 (ZNF259) binds to epidermal growth factor receptor (EGFR) and is localized to both cytoplasm and nucleus. The zinc fingers found in ZPR1 and the tyrosine kinase domain of EGFR mediate the interaction between ZPR1 and the receptor (1). ZPR1 translocates from the cytoplasm to nucleus following mitogen (i.e. EGF) stimulation (2,3). ZPR1 also interacts with translation elongation factor eEF1A <i>in vivo</i> following EGF treatment (3). The interaction between the zinc finger protein and elongation factor is important for cell proliferation. Cells lacking ZPR1 exhibit abnormal nucleolar function, suggesting that ZPR1 is required for cell viability and nucleolar function in dividing cells (3). ZPR1 knockout mice exhibit significant neurodegeneration, and reduced or altered expression of ZPR1 may contribute to spinal muscular atrophy, a disorder characterized by degeneration of spinal cord neurons (4).						
Background References		1. Galcheva-Gargova, Z. et al. (1996) <i>Science</i> 272, 1797-802. 2. Gangwani, L. et al. (1998) <i>J Cell Biol</i> 143, 1471-84. 3. Galcheva-Gargova, Z. et al. (1998) <i>Mol Biol Cell</i> 9, 2963-71. 4. Doran, B. et al. (2006) <i>Proc Natl Acad Sci USA</i> 103, 7471-5.						
Species Reactiv	/ity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	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						
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey						
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