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p58 Primase (8D3) Rat 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

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Applications: W, IP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 58	Source/Isotype: Rat IgG2a	UniProt ID: #P49643	Entrez-Gene Id: 5558
Product Usage Information		Application Dilution				
Imormation		Western Blotting Immunoprecipitation			1:1000 1:250	
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		p58 Primase (8D3) Rat mAb detects endogenous levels of total p58 primase protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with full-length human recombinant p58 primase.				
Background		Initiation of eukaryotic DNA replication is a stringently regulated process that requires the cooperation of many proteins and protein complexes to occur efficiently, at the origins of replication, and once per cell cycle. The initiation of DNA replication requires a protein complex composed of two DNA polymerase α subunits and a pair of primase subunits. Primase activity catalyzes <i>de novo</i> synthesis of an RNA/DNA primer (initiator DNA) on the leading and lagging strands, while polymerase activity extends the initiator DNA (1). The 48 and 58 kDa primase subunits cooperate in the synthesis of small RNA primers. p48 is the catalytically active subunit (2), while p58 couples p48 to the polymerase to allow the transfer of primers to the active site. The p58 subunit may also play a role in regulation of primer length (3,4).				
Background References		1. Shiratori, A. et al. (1995) <i>Genomics</i> 28, 350-353. 2. Copeland, W.C. (1997) <i>Protein Expr. Purif</i> . 9, 1-9. 3. Copeland, W.C. and Wang, T.S. (1993) <i>J. Biol. Chem.</i> 268, 26179-26189. 4. Arezi, B. and Kuchta, R.D. (2000) <i>Trends Biochem. Sci.</i> 25, 572-576.				
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Koy		W. Western Pletting ID: Immunerrecipitation				

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey

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