Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:		
For Research Use Or	nly. Not for Use in	Diagnostic Proc	edures.					
#				3 Trask L	ane Danvers Mas	ssachusetts 01923 USA		
#4725						cellsignal.com		
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Store					Orders:	877-616-CELL (2355)		
at -	nase (8G10)) Rat mAb	at mAb					

WB	H M R Mk	Endogenous	MW (KDa): 48	Rat IgG1	UniProt ID: #P49642	Entrez-Gene Id: 5557				
Product Usage Information		blication stern 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 / Sensit	i vity p48	p48 Primase (8G10) Rat mAb detects endogenous levels of total p48 primase protein.								
Source / Purificatio	n Mon	Monoclonal antibody is produced by immunizing animals with full-length recombinant human p48 primase.								
Background Initiation of eukaryotic DNA replication is a stringently regulated process that requires the cooperation many proteins and protein complexes to occur efficiently, at the origins of replication, and once per cocycle. The initiation of DNA replication requires a protein complex composed of two DNA polymerase subunits and a pair of primase subunits. Primase activity catalyzes <i>de novo</i> synthesis of an RNA/DN. primer (initiator DNA) on the leading and lagging strands, while polymerase activity extends the initia DNA (1). The 48 and 58 kDa primase subunits cooperate in the synthesis of small RNA primers. p48 catalytically active subunit (2), while p58 couples p48 to the polymerase to allow the transfer of prime the active site. The p58 subunit may also play a role in regulation of primer length (3,4).										
Background Refere	2. Co 3. Co	 Shiratori, A. et al. (1995) <i>Genomics</i> 28, 350-353. Copeland, W.C. (1997) <i>Protein Expr. Purif.</i> 9, 1-9. Copeland, W.C. and Wang, T.S. (1993) <i>J. Biol. Chem.</i> 268, 26179-26189. Arezi, B. and Kuchta, R.D. (2000) <i>Trends Biochem. Sci.</i> 25, 572-576. 								
Species Reactivity	Spec	es reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).				
Western Blot Buffe	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:	WB: Western Blotting								
Cross-Reactivity K	 tivity 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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p48 Primase (8G10) Rat mAb (#4725) Datasheet Without Images Cell Signaling Technology

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