e at -20C	Pirin (1E8) Rat mAb		Cell Signaling TECHNOLOGY®		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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++-		3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA		

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

Applications: WB, IP	<b>Reactivity:</b> H M R Hm Mk B	Sensitivity: Endogenous	<b>MW (kDa):</b> 32	Source/Isotype: Rat IgG2a	<b>UniProt ID:</b> #O00625	Entrez-Gene Id: 8544		
Product Usage Information	Wes	lication stern Blotting uunoprecipitation			<b>Dilution</b> 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sen		Pirin (1E8) Rat mAb detects endogenous levels of Pirin protein. This antibody does not cross-react with other proteins in the cupin superfamily.						
Source / Purifica	ation Mono	Monoclonal antibody is produced by immunizing animals with the full-length Pirin protein.						
Background	conta impli pirins comp activi modu has a	Pirin is a highly conserved nuclear protein and a member of the cupin superfamily of proteins, all of which contain two conserved β-barrel fold domains (1). Pirin functions as a co-factor for NFI/CTF1 and Bcl-3, implicating it in DNA replication, transcriptional activation and apoptosis (2,3). Both human and bacterial pirins catalyze the di-oxygenation of quercetin, one of a class of widespread naturally occurring flavenoid compounds that have anti-inflammatory and anti-cancer activities (4). Flavenoids exert these beneficial activities by functioning as antioxidants that stabilize cellular free radical molecules and by directly modulating cell signaling pathways involving PI 3-kinase, Akt/PKB, PKC and MAP kinases (5). Quercetin has also been directly regulating Bcl-3/NF-κB activity and by modulating quercetin levels in the cell (6).						
Background Re	2. We 3. De 4. Ad 5. Wi	endler, W.M. et al. ( chend, R. et al. (19 ams, M. and Jia, Z.	1997) J. Biol. Ch 99) Oncogene 1 . (2005) J. Biol. ( 004) Free Radic	Chem. 280, 28675-2868 . Biol .Med. 36, 838-849				
Species Reactiv	rity Speci	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Bu		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 Ke	y WB:	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity	X: Xe	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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## Pirin (1E8) Rat mAb (#9777) Datasheet Without Images Cell Signaling Technology

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