Rabbit mAb

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Cell Signaling Phospho-Prdx1 (Tyr194) (D1T9C) TECHNOLOGY® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)

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

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #Q06830	Entrez-Gene Id: 5052	
Product Usage Information	We	plication estern Blotting munoprecipitation			Dilution 1:1000 1:50		
Storage	•	•		7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than	
Specificity / Sensitivity		Phospho-Prdx1 (Tyr194) (D1T9C) Rabbit mAb recognizes endogenous levels of Prdx1 protein only when phosphorylated at Tyr194. This antibody may cross react with other activated receptor tyrosine kinases including EGFR.					
Species predicted react based on 10 sequence homolo	0%	use, Rat					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr194 of human Prdx1 protein.					
Background	sha (Cy: prot cha and pho by p The loca	re a conserved N-terr s51-SOH) and, in turr tecting it from degrada perone that loses its p c-Abl and regulate th sphatase activity in co protecting PTEN from transient phosphoryl alized hydrogen perox	ninal cysteine (n, reacts with Cy ation (1-3). Abno peroxidase activ peir kinase activ onditions of mild oxidation-induc ation of Prdx1 a cide accumulatio	peroxidases that functio Cys51) that is oxidized b ys172-SH of another Pro ormally high levels of H ₂ rity (4). Prdx family mem ity (5,6). Prdx1 was show d or no cellular stress, he red inactivation (7). at Tyr194 leads to inactiv on (8). Evidence suggest uring repair of cutaneous	y H_2Q_2 to form cysteir lx protein, forming a di Q_2 cause Prdx1 to forr bers have been report wn to bind to PTEN an ence preventing Akt-dr ation of Prdx1 that in t as that the Tyr194 phos	ne-sulfenic acid sulfide dimer and n an oligomeric ted to bind to JNK d regulate its iven transformation urn promotes	
Background Refe	2. C 3. C 4. Ji 5. W 6. K 7. C 8. W	ang, H.H. et al. (2004 Ven, S.T. and Van Ette im, Y.J. et al. (2006) (ao, J. et al. (2009) <i>El</i> Voo, H.A. et al. (2010)	 J Biol Chem 2 Proc Natl Aca Cell 117, 625- en, R.A. (1997) Cancer Res 66, MBO J 28, 1505 Cell 140, 517-2 	269, 27670-8. d Sci U S A 91, 7022-6. 35. Genes Dev 11, 2456-67 7136-42. 5-17.			
Species Reactivit	y Spec	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern blot).	
Western Blot Buff		DRTANT: For western 5 Tween® 20 at 4°C w		membrane with diluted ing, overnight.	primary antibody in 5%	6 w/v BSA, 1X TBS,	
Applications Key Cross-Reactivity		: Western Blotting IP:	Immunoprecipi	tation			

1/1/24, 1:24 PM Trademarks and Patents	 Phospho-Prdx1 (Tyr194) (D1T9C) Rabbit mAb (#14041) Datasheet Without Images Cell Signaling Technology 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 Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more
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