e at -20C	PP2A B Subunit Antibody		ll Signaling снмогоду®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
33		Support:	877-678-TECH (8324)
#4953		Web:	info@cellsignal.com cellsignal.com
#	3 Tr	ask Lane Danvers Ma	ssachusetts 01923 USA

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

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 52	Source: Rabbit	UniProt ID: #P63151	Entrez-Gene Id: 5520		
Product Usage	Aŗ	oplication			D	ilution		
Information		estern Blotting			1:	1000		
	Im	munoprecipitation			1:	100		
	Im	munohistochemistry	(Paraffin)		1:	75 - 1:300		
	Im	munofluorescence (I	Immunocytochemis	stry)	1:	100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BS/ 20°C. Do not aliquot the antibody.			00 μg/ml BSA and 50% g	glycerol. Store at –		
Specificity / Sensitivity		PP2A B Subunit Antibody detects endogenous levels of the PR55 PP2A B subunit (α isoform). The antibody may also recognize the β , γ , and δ isoforms of the PR55 PP2A B subunit. This antibody does not cross-react with the B-prime (PR61), B-prime-prime, or B-prime-prime-prime families of PP2A B subunits.						
Species predicted t react based on 100 sequence homolog	%	cken						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the amino terminus of human PP2A B subunit. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	con reg cyc and reg fam are bind reg PP acti Me	served in all eukary ulates fundamental of le progression, cell of regulatory A (or PR ulatory subunits belo ulatory protein famili nily proteins include F both members of the ding site on the core ulatory B subunits, a ression, localization 2A at Tyr307 by Src vity (4). Reversible r	betes. PP2A is a key cellular activities su division, apoptosis a 65) subunits, with e ong to four different es contain α, β, γ a PR72, PR130, PR5 e B''' regulatory pro A subunit (1). This llows PP2A to act i , holoenzyme comp occurs in response nethylation on the o	enzyme within vari ch as DNA replication and development (1 each subunit represe families of unrelate nd δ isoforms, with 9 and PR48 isoform tein family. These E variable array of ho n a diverse set of fur position and post-tra to EGF or insulin an carboxyl group of Le	erine/threonine phosphat ous signal transduction p on, transcription, translat -3). The core enzyme co ented by α and β isoform d proteins. Both the B (o the B' family also includi ns, while striatin (PR110) 8 subunits competitively b loenzyme components, inctions. PP2A function i inslational modification. I nd results in a substantia eu309 of PP2A has been alization and association	pathways as it tion, metabolism, cell possists of catalytic C ns (1). Additional or PR55) and B' ing an ε protein. B" of and SG2NA (PR93) bind to a shared particularly s regulated by Phosphorylation of al reduction of PP2A o observed (5,6).		
Background Refere	2. Z 3. N 4. C 5. T 6. L 7. T	anssens, V. and Gor Colnierowicz, S. (200 Millward, T.A. et al. (1 Chen, J. et al. (1992) Turowski, P. et al. (1996) Pee, J. et al. (1996) Tolstykh, T. et al. (2001)	0) Biochem Pharm 999) Trends Bioch Science 257, 1261 95) J Cell Biol 129 Proc Natl Acad Sci (00) EMBO J 19, 56	acol 60, 1225-35. em Sci 24, 186-91. 4. , 397-410. J S A 93, 6043-7. 32-91.				

1/1/24, 12:48 PM Species Reactivity	PP2A B Subunit Antibody (#4953) Datasheet Without Images Cell Signaling Technology 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 Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity 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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