e at -20C	YB1 (D2A11) Rabbit mAb		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Onl	ly. Not for Use in Diagnostic Procedures.	

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 49	Source/Isotype: Rabbit IgG	UniProt ID: #P67809	Entrez-Gene Id: 4904
Product Usage Information	-	plication estern Blotting			Dilution 1:1000	
	Imr	munoprecipitation			1:100	
Storage				.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than
Specificity / Sensiti	vity YB1	. (D2A11) Rabbit mA	b recognizes en	dogenous levels of total	YB1 protein.	
Species predicted t react based on 100 sequence homolog	%	iopus, Bovine				
Source / Purificatio		noclonal antibody is p dues near the carbox	-	unizing animals with a s man YB1 protein.	synthetic peptide corre	esponding to
Background	prot meta pror proli drug cell splic (8,9) how tran In a UV i Trea Ser inde tissu oste YB1	eins that bind single- abolism, and protein moters and can positi iferation and cancer, g resistance 1 (MDR1 death-associated rec cing factor SRp30c a). The majority of YB vever, nuclear localiza slocation is cell cycle ddition, nuclear trans irradiation, or treatme atment of the MCF7 b 102, which is required ependent growth (10) ues, including breast cosarcomas, colorect	stranded DNA a synthesis (1). Yl ively or negative such as cyclin A 1) gene (2-4). YE ceptor and the pl nd stabilizes inte 1 protein localize ation appears to e regulated, with slocation is induce ent of cells with to reast cancer ce d for nuclear tran . Research studi cancer, non-sma- al carcinomas, a	is to a family of evolution and RNA and function as all binds to Y-box seque by regulate transcription , cyclin B1, matrix meta all represses genes ass as tumor suppressor ge releukin-2 (IL-2) mRNA is es to the cytoplasm, with be critical for its role in YB1 protein accumulati ed in response to extra hrombin, interferons, or Il line with IGF-I results aslocation of YB1 and it es have shown that YB all cell lung carcinoma, of and malignant melanom Is of proliferation, drug is	s regulators of transcrip ences (TAACC) found . YB1 activates genes ulloproteinase-2 (MMP- ociated with cell death ne (5-7). It also interace upon induction of T lyn h a minor pool found ir promoting proliferation ng in the nucleus durir cellular stimuli such as insulin-like growth face in Akt-mediated phosp s ability to promote an 1 is overexpressed in ovarian adenocarcinor as. Investigators have	botion, RNA in multiple gene associated with -2), and the multi- , including the Fas cts with the RNA- nphocytes by IL-2 n the nucleus; n. Nuclear ng G1/S phase (2). s hyperthermia and ctor (IGF-I) (2,10). phorylation of YB1 at chorage- many malignant nas, human shown that nuclear
Background Refere	2. Ju 3. M 4. U 5. La 6. La 7. H 8. R 9. C	latsumoto, K. and Wo urchott, K. et al. (200 lertens, P.R. et al. (199 chiumi, T. et al. (199 asham, A. et al. (200 asham, A. et al. (2005 omer, C. et al. (2005 affetseder, U. et al. (2000 utherland, B.W. et al.	 3) J. Biol. Chem 997) J. Biol. Che 3) Cell Growth D 0) Gene 252, 1-3 3) J. Biol. Chem 1) Oncogene 24, 2003) J. Biol. Ch 0) Genes Dev. 14 	m. 272, 22905-12. iffer. 4, 147-57. L3. 278, 35516-23. 8314-25. rem. 278, 18241-8. 4, 1236-48.	3-23.	

1/1/24, 10:28 AM	YB1 (D2A11) Rabbit mAb (#9744) Datasheet Without Images Cell Signaling Technology		
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 Key	WB: Western Blotting IP: Immunoprecipitation		
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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