3/23/24, 10:42 AM Revision 5

#12550 Store at -200 Rabbit m/		or (D2K6W)		Orders: Support: Web:	BISignaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
For Research Use Only	Not for Use in	Diagnostic Proc	edures	3 Trask L	ane Danvers Ma	ssachusetts 01923 USA
Applications: WB, IP, IHC-P, ChIP, ChIP-seq	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 48, 54	Source/Isotype: Rabbit IgG	UniProt ID: #P11473	Entrez-Gene Id: 7421
Product Usage Information				use 10 µl of antibody an validated using Simple		
	Арр	lication			Dilutior	ı
	Wes	stern Blotting			1:1000	
	Imn	unoprecipitation			1:100	
	Imn	nunohistochemistry	/ (Paraffin)		1:100 -	1:400
	Chr	omatin IP			1:50	
	Chr	omatin IP-seq			1:50	
Storage				7.5), 150 mM NaCl, 100 o not aliquot the antibody	10 0	ycerol and less than
	For a	a carrier free (BSA	and azide free) v	ersion of this product se	e product #54721.	
Specificity / Sensi	prote	in. This antibody c	loes not cross-rea	Ab recognizes endogen act with vitamin D3 rece eact with both VDRB1 a	ptor-like proteins. Ba	ased upon sequence
Species predicted react based on 10 sequence homolo	0%	ster, Bovine, Pig, ł	Horse			
Source / Purificati				nunizing animals with a snan vitamin D3 receptor		rresponding to
Background	rece to ex the c level cells NR1 F) of term doma stabi regic doma prom resul rece trans differ In the color Multi	botor (VDR/NR111) ert biological effect entral nervous sys , vitamin D signalir Within the steroid 2/PXR and NR113 the full length VDF nal ligand-binding ains together (1). L lized by the phosp n by casein kinase ains. The 1α, 25(O toters of target ger ts in the dissociation totors (SMRT), and criptional coactiva ent forms or stage e case of colon can n polyps and during	and its ligand $1-\alpha$ ts in almost every tem, skin, immun ng affects prolifera I receptor gene fa /CAR. The humal R protein, which in activity domain, a Jpon 1α , $25(OH)_2$ horylation of Sers e II (3). VDR asso (H) ₂ D ₃ -VDR-RXR hes through the D on of the co-repre- allows interaction tors (1).Studies h es of cancer and lin neer, research inc g early tumorigen st that 1α , $25(OH)$	heir roles in calcium and , 25-dihydroxycholecalc v tissue of the human bo e system, endocrine gla ation, differentiation, and mily, VDR belongs to th n VDR gene is compose includes an N-terminal d and an extensive unstrue D ₃ binding to the hormo 51 in the DNA-binding do ciates with the retinoic a complex binds to the vi NA-binding domain. Lig essor, silencing-mediator n of the VDR activation f ave shown that variable kely results from tissue- licates that VDR express esis but diminishes in la $_2D_3$ may be an attractive	iferol [1α, 25(OH) ₂ D ady. Targets for vitan ands, kidney, and co d apoptosis of both r e NR1I subfamily th ed of 11 exons that e ual zinc finger DNA ctured region that lir one ligand-binding do omain by PKC (2), a acid receptor (RXR) tamin D response e and-induced conforr r for retinoid and thy function (AF2) trans- VDR expression is type variation in 1α, sion is relatively hig ter stage, poorly diff	baj are now recognized nin D signaling include lon. At the cellular normal and transformed at also includes encode six domains (A- binding domain, a C- nks the two functional omain, VDR is and Ser208 in the hinge through dimerization lements (VDREs) in the mation changes in VDR rroid hormone activation domain with associated with , 25(OH) ₂ D ₃ signaling. her in hyperplastic ferentiated tumors.

Background References	 Haussler, M.R. et al. (1998) J Bone Miner Res 13, 325-49. Hsieh, J.C. et al. (1991) Proc Natl Acad Sci U S A 88, 9315-9. Jurutka, P.W. et al. (1993) J Biol Chem 268, 6791-9. Matusiak, D. et al. (2005) Cancer Epidemiol Biomarkers Prev 14, 2370-6. Deeb, K.K. et al. (2007) Nat Rev Cancer 7, 684-700.
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq
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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