#96493

Vitamin D3 Receptor (D2K6W) Rabbit mAb (Biotinylated)



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
VV	НМ	Endogenous	48, 54	Rabbit IgG	#P11473	/421
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 140 mM N phosphate monobasio	laCl, 3 mM KCI, 10 r c, 2 mg/mL BSA, an	mM sodium phosphate (µ d 50% glycerol. Store at -	oH 7.4) dibasic, 2 ml -20°C. <i>Do not aliquo</i>	۸ potassium <i>t the antibody.</i>
Specificity/Sens	sitivity	Vitamin D3 Receptor (D2K6W) Rabbit mAb (Biotinylated) recognizes endogenous levels of total vitamin D3 receptor protein. This antibody does not cross-react with vitamin D3 receptor-like proteins. Based upon sequence alignment, this antibody is predicted to react with both VDRB1 and VDRB2 isoforms.				
Species predicto based on 100% homology	ed to react sequence	Hamster, Bovine, Pig,	Horse			
Source / Purific	ation	Monoclonal antibody residues near the ami	is produced by imn no terminus of hur	nunizing animals with a s nan vitamin D3 receptor	synthetic peptide co isoform A protein.	rresponding to
Description		This Cell Signaling Tec biotinylated antibody Vitamin D3 Receptor (hnology antibody i is expected to exhi D2K6W) Rabbit mA	s conjugated to biotin ur bit the same species cros b #12550.	nder optimal conditi ss-reactivity as the u	ons. The nconjugated
Background		Although originally id- receptor (VDR/NR111) recognized to exert bi signaling include the of colon. At the cellular la both normal and trans subfamily that also ind that encode six domai finger DNA binding do unstructured region the the hormone ligand-b binding domain by PK the retinoic acid recept binds to the vitamin D binding domain. Ligar repressor, silencing-m interaction of the VDR (1). Studies have shown the and likely results from research indicates that tumorigenesis but dim 1 α , 25(OH) ₂ D ₃ may be	entified based on t and its ligand 1-a, ological effects in a central nervous sys evel, vitamin D sigr sformed cells. With cludes NR112/PXR a ins (A-F) of the full omain, a C-termina hat links the two fu binding domain, VD (C (2), and Ser208 in otor (RXR) through o tor (RXR) through o tor (RXR) through o response element nd-induced conform rediator for retinoic activation function hat variable VDR ex n tissue-type variati at VDR expression is ninishes in later sta- e an attractive targe	heir roles in calcium and 25-dihydroxycholecalcife almost every tissue of the tem, skin, immune syste haling affects proliferatio in the steroid receptor g and NR1I3/CAR. The hum length VDR protein, whic I ligand-binding activity of nctional domains togeth R is stabilized by the pho the hinge region by cas dimerization domains. The s (VDREs) in the promote nation changes in VDR re and thyroid hormone re to (AF2) transactivation do pression is associated wi on in 1α, 25(OH) ₂ D ₃ signa s relatively higher in hype age, poorly differentiated at for development as a to	bone homeostasis, rol [1α, 25(OH) ₂ D ₃] a human body. Targe m, endocrine gland n, differentiation, ar ene family, VDR belo an <i>VDR</i> gene is com h includes an N-terr domain, and an exter er (1). Upon 1α, 25(0 sphorylation of Ser ein kinase II (3). VDI te 1α, 25(OH) ₂ D ₃ -VD ers of target genes t escults in the dissocia ecceptors (SMRT), and main with transcrip th different forms of aling. In the case of erplastic colon polyp I tumors. Multiple st herapeutic anticanc	the vitamin D3 are now ets for vitamin D s, kidney, and id apoptosis of ongs to the NR1I posed of 11 exons ninal dual zinc nsive DH) ₂ D ₃ binding to 51 in the DNA- Rassociates with NR-RXR complex hrough the DNA- tion of the co- d allows tional coactivators or stages of cancer colon cancer, os and during early rudies suggest that er agent (4,5).
Background Re	ferences	1. Haussler, M.R. et al. 2. Hsieh, J.C. et al. (199 3. Jurutka, P.W. et al. (1 4. Matusiak, D. et al. (2 5. Deeb, K.K. et al. (20	(1998) <i>J Bone Mine</i> 91) <i>Proc Natl Acad 3</i> 1993) <i>J Biol Chem</i> 2 2005) <i>Cancer Epide</i> 07) <i>Nat Rev Cancer</i>	er Res 13, 325-49. Sci U S A 88, 9315-9. 68, 6791-9. miol Biomarkers Prev 14, 7, 684-700.	, 2370-6.	

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.
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Cross-Reactivity Key	H: Human M: Mouse
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