Datasheet for ABIN3043960

anti-Vitamin D Receptor antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Vitamin D Receptor (VDR)
Binding Specificity:	AA 377-402, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Vitamin D3 receptor(VDR) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human VDR (377-402aa HLLYAKMIQKLADLRSLNEEHSKQYR), different from the related mouse and rat sequences by one amino acid.
Sequence:	HLLYAKMIQK LADLRSLNEE HSKQYR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Vitamin D3 receptor(VDR) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: vitamin D (1,25- dihydroxyvitamin D3) receptor Protein Name: Vitamin D3 receptor

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Vitamin D Receptor (VDR)
Alternative Name:	VDR (VDR Products)
Target Type:	Chemical
Background:	VDR (Vitamin D Receptor), also known as Vitamin D Hormone Receptor, is a member of the nuclear receptor family of transcription factors. Labuda et al. (1991) assigned the VDR gene to 12q12-q14 by in situ hybridization. Using mutation analysis, Jurutka et al. (2000) characterized arg18/arg22, VDR residues immediately N-terminal of the first DNA-binding zinc finger, as vital for contact with the general transcription factor IIB (TFIIB). A natural polymorphic variant of VDR, termed F/M4 (missing a FokI restriction site), which lacks only the first 3 amino acids (including glu2), interacted more efficiently with TFIIB and also possessed elevated transcriptional activity compared with the full-length (f/M1) receptor. Shah et al. (2006) stated that the signaling and oncogenic activity of beta-catenin (CTNNB1) can be repressed by activation of VDR. Conversely, high levels of beta-catenin can potentiate the transcriptional activity of 1,25- dihydroxyvitamin D3. Synonyms: 1 25 dihydroxyvitamin D3 receptor antibody|1 antibody|1,25-@dihydroxyvitamin D3 receptor antibody|125 dihydroxyvitamin D3 receptor antibody|25-dihydroxyvitamin D3 receptor antibody|Member 1 antibody|NR1I1 antibody|Nuclear receptor subfamily 1 group I member 1 antibody|VDR antibody|VDR_HUMAN antibody|Vitamin D (1,25- dihydroxyvitamin D3) receptor antibody|Vitamin D hormone receptor antibody|Vitamin D nuclear receptor variant 1 antibody| Vitamin D receptor antibody|Vitamin D3 receptor antibody
Gene ID:	7421
UniProt:	P11473
Pathways:	Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for VDR is approximately 0.1 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the

Application Details

	staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

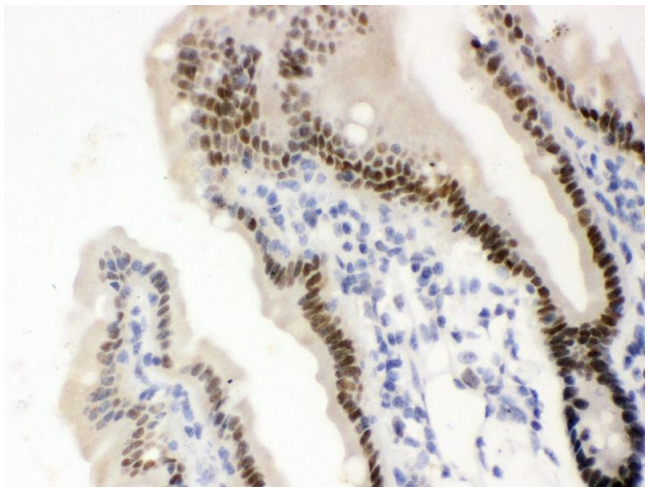
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

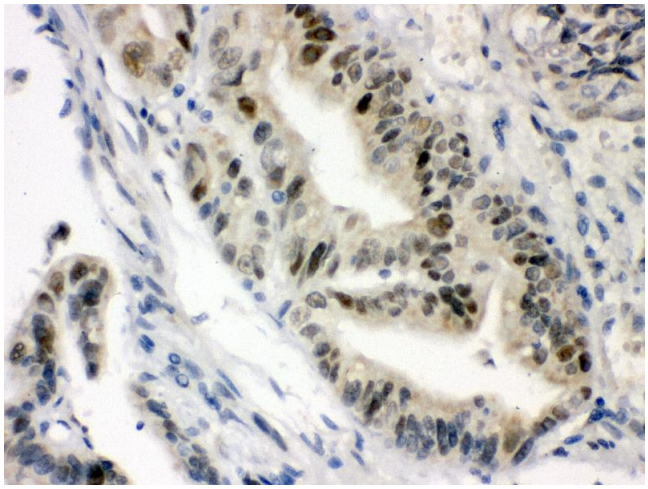
Product cited in:	Xu, Tang, Li, Shi, Chen, Liang: "Positional and expressive alteration of prohibitin during the induced differentiation of human hepatocarcinoma SMMC-7721 cells." in: **World journal of gastroenterology**, Vol. 14, Issue 32, pp. 5008-14, (2008) (PubMed).

Images



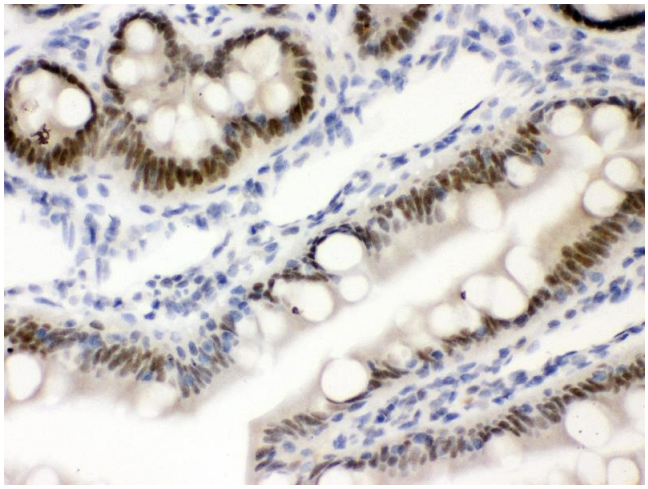
Immunohistochemistry

Image 1. Anti-VDR Picoband antibody, IHC(P) IHC(P): Mouse Intestine Tissue



Immunohistochemistry

Image 2. Anti-VDR Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



Immunohistochemistry

Image 3. Anti-VDR Picoband antibody, IHC(P) IHC(P): Rat Intestine Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3043960.