**VDR (D-6): sc-13133**

**BACKGROUND**

The active metabolite of vitamin D modulates the expression of a wide variety of genes in a developmentally-specific manner. This secosteroid hormone can up- or downregulate the expression of genes involved in a diverse array of responses such as proliferation, differentiation and calcium homeostasis. 1,25-(OH)₂-vitamin D₃ exerts its effects through interaction with the vitamin D receptor (VDR), a member of the superfamily of hormone-activated nuclear receptors. In its ligand-bound state, the VDR forms heterodimers with the 9-cis retinoic acid receptor, RXR, and affects gene expression by binding specific DNA sequences known as hormone response elements, or HREs. In addition to regulating the above-mentioned cellular responses, 1,25-(OH)₂-vitamin D₃ exhibits antiproliferative properties in osteosarcoma, melanoma, colon carcinoma and breast carcinoma cells.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: VDR (human) mapping to 12q13.11; Vdr (mouse) mapping to 15 F1.

**SOURCE**

VDR (D-6) is a mouse monoclonal antibody raised against amino acids 344-424 of VDR of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂a kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-13133 X, 200 µg/0.1 ml.

VDR (D-6) is available conjugated to agarose (sc-13133 AC), 500 µg/0.25 ml agarose in 1 ml, for IP, to HRP (sc-13133 HRP), 200 µg/ml, for WB, IHC(P) and ELISA, to either phycocerythrin (sc-13133 PE), fluorescein (sc-13133 FITC), Alexa Fluor® 488 (sc-13133 AF488), Alexa Fluor® 546 (sc-13133 AF546), Alexa Fluor® 594 (sc-13133 AF594) or Alexa Fluor® 647 (sc-13133 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM, and to either Alexa Fluor® 680 (sc-13133 AF680) or Alexa Fluor® 790 (sc-13133 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, VDR (D-6) is available conjugated to biotin (sc-13133 B), 200 µg/ml, for WB, IHC(P) and ELISA.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**SELECT PRODUCTION CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.