

Anti human VDR mouse monoclonal antibody

VDR: Vitamine D Receptor

Code No PP-H4537-00

Clone No. H4537

Lot. A-1

Concentration 1 mg/mL

Volume 100 uL

Ig Class G2a

Description Vitamin D receptor (VDR; NR111) is a member of steroid receptor related to the PXR and CARs. The natural ligand of VDR is 1, 25 di-hydroxyvitamin D3. VDR is expressed in osteoblasts, osteocytes, osteoclasts, bone, bone marrow, thymus and small intestine. VDR plays critical roles in calcium homeostasis, bone development and mineralization, as well as control of cell growth and differentiation. RXRs are the major partners for VDR since by heterodimerizing with VDR they increase their DNA-binding affinity and select the correct spacing of direct repeat elements.

Nomenclature NR111

Genbank J03258

Origin Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant humanVDR (91-210 aa) .

Specificity This antibody specifically recognizes human VDR and cross reacts with mouse and rat VDR.

Purification Ammonium sulfate fractionation

Formulation Physiological saline with 0.1% NaN₃ as a preservative.

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 1 ug/mL

Non reducing Western Blot Not yet tested

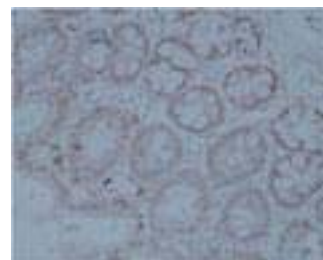
ELISA 0.1 ug/mL (A450=0.2)

Immunoprecipitation Decide by use

Supershift Assay Not yet tested

Chromatin immunoprecipitatic Not yet tested

Immunohistochemistry 20-40 ug/mL



Rat Large intestine
Epithelial cell
paraffin section



Rat
Hair follicle
paraffin section

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference Suh JM, *et al.* Mol Endocrinol. 2006; 20(12): 3412-20
 Qin J, *et al.* Dev Dyn. 2007; 236(3): 810-20

Notes Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

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MADE IN JAPAN

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