



Monoclonal Anti-human VDR/NR1H1 Antibody

ORDERING INFORMATION

Catalog Number: PP-H4537-00,
2ZH4537H

Clone: H4537

GenBank: J03258

Ig Class: mouse IgG_{2A}

Volume: 100 μ L

Concentration: 1 mg/mL

Formulation: A liquid formulation in
physiologic saline with
0.1% NaN₃

Storage: $\leq -20^{\circ}$ C

Specificity: human VDR

Applications: Western blot
Direct ELISA
Immunohistochemistry
Immunoprecipitation

Description

Vitamin D Receptor (VDR; NR1H1) is a member of the steroid receptor family 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.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human VDR (amino acids 91 - 210) and mouse myeloma cells (NS-1). The IgG fraction of the ascites fluid was purified by ammonium sulfate fractionation.

Formulation

A liquid formulation in physiologic saline with 0.1% NaN₃.

Storage

This antibody is stable for greater than six months when held at -20° C in a **manual defrost freezer** or at -70° C. Upon thawing, the antibody can be stored at 2° - 8° C for at least 1 month without detectable loss of activity.

Avoid repeated freeze-thaw cycles.

Specificity

This antibody specifically recognizes human VDR and cross reacts with rat VDR. Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 μ g/mL under reducing conditions with the appropriate secondary reagents to detect human VDR.

Direct ELISA - This antibody can be used at 0.1 μ g/mL with the appropriate secondary reagents to detect human VDR.

Immunohistochemistry - This antibody can be used at 20 - 40 μ g/mL with the appropriate secondary reagents to detect human VDR.

Immunoprecipitation - Optimal dilutions should be determined by each laboratory.

Optimal dilutions should be determined by each laboratory for each application.

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



Manufactured by:

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