

Product datasheet for AM20955PU-N

OriGene Technologies, Inc.

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Vitamin D Receptor (VDR) Mouse Monoclonal Antibody [Clone ID: 2F4]

Product data:

Product Type: Primary Antibodies

Clone Name: 2F4

Applications: ELISA, IHC Recommended Dilution:

ELISA.

Immunohistochemistry on Paraffin Sections: 5 µg/ml.

Reactivity: Human Mouse Host: Isotype: lgG2a

Monoclonal Clonality:

Immunogen: Recombinant protein, VDR (AAH60832, 1 a.a. ~ 428 a.a) full length recombinant protein with

GST tag. MW of the GST tag alone is 26 KDa.

Specificity: This antibody reacts to Vitamin D Receptor (VDR).

Formulation: PBS, pH 7.2

State: Liquid purfied Ig fraction

Concentration: lot specific

Purification: Protein A Chromatography

Conjugation: Unconjugated

Storage: Store the antibody at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: vitamin D (1,25- dihydroxyvitamin D3) receptor

Database Link: Entrez Gene 7421 Human

P11473





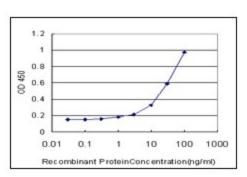
Background:

The vitamin D receptor, a NR1 Thyroid Hormone-Like Receptor, is activated by calcitriol, the active hormonal form of vitamin D. The activated receptor binds DNA at a specific vitamin D-responsive element and promotes transcription of vitamin D target genes such as osteocalcin, the most abundant noncollagenous protein in bone. The vitamin D receptor affects growth, bone formation, and female reproduction. For example, this receptor modulates the growth and differentiation of keratinocytes and mediates the beneficial effects of vitamin D on psoriatic skin. It also inhibits hormone secretion by and proliferation of parathyroid cells. The vitamin D receptor functions either as a homodimer or as a heterodimer of vitamin D and retinoid acid X receptor subunits. Inactivation of the receptor leads to hypocalcemia and Rickets-alopecia syndrome. Recently, the vitamin D receptor has been shown to function as a receptor for the secondary bile acid lithocholic acid (LCA), which is hepatotoxic and a potential enteric carcinogen. Activation of VDR by LCA or vitamin D induced expression in vivo of CYP3A, a cytochrome P450 enzyme that detoxifies LCA in the liver and intestine. An alternatively spliced vitamin D receptor that has an altered ligand-binding domain has been isolated from rats.

Synonyms: VDR, 1,25-dihydroxyvitamin D3 receptor

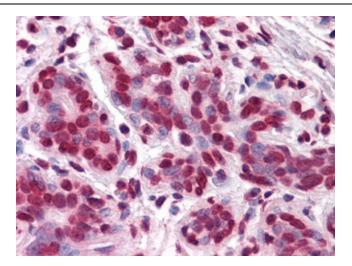
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Product images:



Detection limit for recombinant GST tagged VDR is approximately 1 ng/ml as a capture antibody.





Human Breast: Formalin-Fixed, Paraffin-Embedded (FFPE)