



Mouse Anti- 1,25 (OH)₂ Vitamin D₃ monoclonal antibody, clone L35234N (DMABA-09252)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Specificity | Cross Reactivity Based on Sample Preparation: (Before Extraction; After Extraction) 1,25 (OH) ₂ D ₃ : 100% D ₂ : 1.0%; D ₃ : 0.3%; 24,25 (OH) ₂ D ₃ : 20.5%; 25-OH D ₃ : 4.4%; 25-OH D ₂ : 2.3%; |
| Immunogen | 1,25(OH) ₂ D ₃ 3-Hemisuccinate-BSA |
| Isotype | IgG1 |
| Source/Host | Mouse |
| Species Reactivity | N/A |
| Clone | L35234N |
| Purification | Protein G Chromatography |
| Conjugate | Unconjugated |
| Applications | ELISA |
| Reconstitution | Reconstitute using double distilled water. |
| Format | Lyophilized |
| Size | 1 mg |
| Buffer | 50 mM Tris, pH 7.4 with 2% BSA. |
| Preservative | None |
| Storage | Store lyophilized product at 2-8°C. After reconstitution, store at -20°C. Avoid multiple |

BACKGROUND

Introduction

Serum 25 OH Vitamin D3 (calcidiol) is the most stable circulating form of vitamin D and a low blood level suggests that a person is not getting enough exposure to sunlight or enough dietary vitamin D. Vitamin D deficiency, if severe, can lead to rickets (children) or osteomalacia (adults) and is linked to hyperparathyroidism, osteoporosis, and muscle weakness/pain. Prolonged vitamin D insufficiency leads to increased risk for multiple chronic conditions, including anemia, cardiometabolic and autoimmune diseases, depression, neurodegenerative/cognitive and sleep disorders, and some cancers.

1,25-Dihydroxy Vitamin D3 (Calcitriol) regulates the expression of hundreds of genes and triggers signaling cascades in many tissues and organs. A low level of 1,25-Dihydroxy Vitamin D3 can be seen in kidney disease and is one of the earliest changes to occur in persons with early kidney failure. A high level of 1,25-Dihydroxy Vitamin D indicates the presence of excess parathyroid hormone since PTH is essential for vitamin D activation.

Keywords

Calcitriol; 1, 25 (OH)₂ VITAMIN D3; 1,25-dihydroxycholecalciferol; 1,25-dihydroxyvitamin D3; 1,25-(OH)₂D3; 1,25(OH)₂D
