

Product datasheet

Anti-Vitamin D3 antibody [EPPTX-R6-42-12] ab229820

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Vitamin D3 antibody [EPPTX-R6-42-12]
Description	Rabbit monoclonal [EPPTX-R6-42-12] to Vitamin D3
Host species	Rabbit
Tested applications	Suitable for: Competitive ELISA
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule. Vitamin-D-3-BSA.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPPTX-R6-42-12
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab229820 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Competitive ELISA		Use a concentration of 0.03 - 0.035 µg/ml.

Target

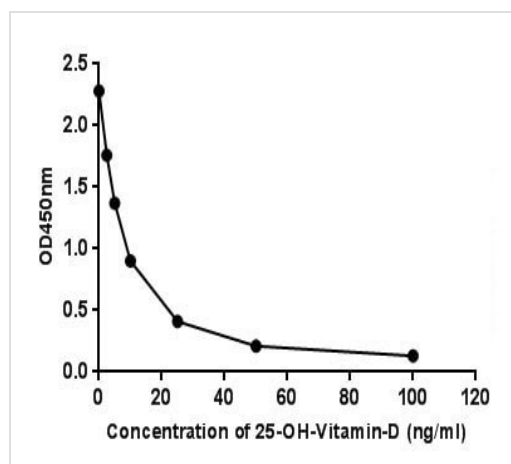
Relevance

Vitamin D3, also known as cholecalciferol, is a form of vitamin D that is made by the human body. It is made in the skin when 7-dehydrocholesterol reacts with UVB ultraviolet light with wavelengths 290 to 315 nm. This can be found in sunlight when the sun is high enough above the horizon for UVB to penetrate the atmosphere and is responsible for the production of cholecalciferol. Up to 20,000 IU can be made in the skin only after one minimal erythemal dose of exposure, or until the skin just begins to turn pink.

Cellular localization

Secreted

Images



Competitive ELISA - Anti-Vitamin D3 antibody
[EPPTX-R6-42-12] (ab229820)

Competitive ELISA - Anti-Vitamin D3 antibody [EPPTX-R6-42-12] (ab229820)

Goat anti-rabbit IgG was coated onto 96-wells. Serial dilutions (0, 2.5, 5, 10, 25, 50, 100 ng/mL) of 25-OH-Vitamin-D (25 µL) were incubated with 20-25 ng/mL of ab229820 (50 µL) for 30 minutes by shaking.

This was followed by adding HRP-conjugated 25-OH-Vitamin-D (50 µL) into each well and incubating for another 30 minutes. After washing, 125 µL of Tetramethylbenzidine (TMB) substrate was added and incubated for 30 minutes without shaking for color development. OD was read at 450nm within 5 minutes.

This data was kindly provided by Pantex Division of Bio-Analysis, Inc.


Compound	% Cross-reactivity
25-OH-Vitamin D3	100.0
25-OH-Vitamin D2	2.0
Vitamin D3 (Cholecalciferol)	0.0
Vitamin D2 (Ergocalciferol)	0.0
1 Alpha 25-OH Vitamin D3	>100.0
1 Alpha 25-OH Vitamin D2	2.0

Competitive ELISA - Anti-Vitamin D3 antibody
[EPPTX-R6-42-12] (ab229820)


Competitive ELISA - Anti-Vitamin D3 antibody [EPPTX-R6-42-12]
(ab229820) used at 6.3 ng/ml.

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Why choose a recombinant antibody?




Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Vitamin D3 antibody [EPPTX-R6-42-12]
(ab229820)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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