

## THE™ 25-OH Vitamin D3 Antibody (32F9C4), mAb, Mouse

Cat. No.	Name	Clone
V00101	THE™ 25-OH Vitamin D3 Antibody (32F9C4), mAb, Mouse	32F9C4

**Specificity** Mab 32F9C4 recognizes 25-OH Vitamin D3 and has no cross-reactivity with 25-OH Vitamin D2.

The specificity of the antibody is defined as the ratio of antigen concentration to cross-reactant concentration at 50% inhibition of maximum binding. The cross-reactivity data obtained in competitive ELISA system.

Compound	Cross-reactivity (%)
25-OH VD3	100
1 $\alpha$ , 25-OH VD3	78
24R, 25-2OH VD3	36
25-OH VD2	0.058
1 $\alpha$ , 25-(OH) <sub>2</sub> VD2	0.094
VD2	0.004
VD3	0.026

**Isotype** IgG2a

**Production** Cultured *in vitro* under conditions free from animal-derived components

**Purification** Protein A/G affinity column

**Formulation**

- 1) PBS, pH 7.4, containing 0.03% Proclin 300
- 2) 50 mM Na-citrate, 150 mM NaCl, pH 6.0, containing 0.03% Proclin 300 \*
- 3) 50 mM Na-citrate, 150 mM NaCl, pH 7.0, containing 0.03% Proclin 300 \*

\*: For new batch since 09/01/2018, please refer to COA.

**Storage** For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

**Application** ELISA, CLIA, GICA, LF, and LTIA

**Background** Vitamin D plays an important role in calcium homeostasis and metabolism. Vitamin D3 and vitamin D2 are two forms of vitamin D in human body, both of which only a few foods contain. The deficiency of vitamin D in human body can cause a threat of diseases such as osteomalacia, rickets and diabetes. 25-OH Vitamin D2 and 25-OH Vitamin D3 as vitamin D metabolites are measured in human serum to evaluate vitamin D level. Vitamin D supplements are considered as an effective way to treat or to prevent the diseases.

<b>Product stability</b>	Temperature, Time	Results for clone 32F9C4
	-80°C, 21 days	OK
-20°C, 21 days	OK	
4°C, 21 days	OK	
20°C, 21 days	OK	
37°C, 21 days	OK	
40°C, 21 days	OK	

**Note** Mab 32F9C4 can be used with 25-OH Vitamin D3-BSA Conjugate (GenScript, T00101) or 25-OH Vitamin D3-HRP Conjugate (GenScript, T00102) to compete with 25-OH Vitamin D3 in competitive immunoassay. GenScript can customize this product per customer's request including product size, buffer components, etc.

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