

**DATASHEET**

Version: 2016-08-17

**THE™ 25-OH Vitamin D3 Antibody, mAb, Mouse**

**Cat. No.:** A01825-100

**Size:** 100 ug

**Description:**

25-OH vitamin D3 is measured worldwide to determine people's vitamin D status by physicians. Its blood concentration is considered as the best indicator of vitamin D status in the body. Vitamin D is responsible for enhancing intestinal absorption of calcium. In humans, vitamin D3 and vitamin D2 are the most important compounds in Vitamin D family. The deficiency of vitamin D can increase the risk of many diseases including autoimmune diseases, cancers and type II diabetes. 25-OH Vitamin D3 is formed in the liver by hydroxylation of vitamin D3 by the enzyme. It is converted in the kidneys into 1,25-dihydroxyvitamin D3. 25-OH Vitamin D3 is also known as calcifediol, 25-Hydroxyvitamin D3, 25-Hydroxycholecalciferol.

**Immunogen:** 25-OH VD3-BSA

**Host:** Mouse

**Conjugation:** Unconjugated

**Fusion Partner:**

Spleen cells were fused with SP2/0-Ag14 mouse myeloma cells

**Formulation:**

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

**Clone:** 32F9C4

**Ig Subclass:** IgG2a

**Specificity:** 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 is as follows:

Compound	% Cross-reactivity
25-OH VD3	100

1 α , 25-OH VD3	78
24R, 25-OH VD3	36
25-OH VD2	0.058
1 α , 25-(OH)2 VD2	0.094
VD2	0.004
VD3	0.026

**Purification:** Protein A affinity column

**Applications:**

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

**ELISA:** 0.04-0.1 µg/ml

**Other:** : user-optimized

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user

**Reconstitution:**

Reconstitute the lyophilized product with deionized water (or equivalent) to a final antibody concentration of 0.5 mg/ml.

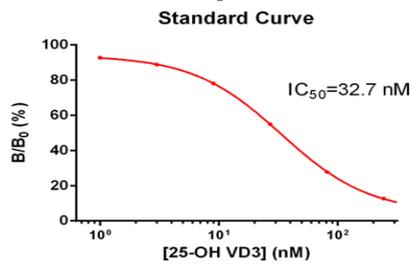
**Storage:**

The antibody should be stored at lyophilized form until use. It is stable in lyophilized form for at least two years at -20°C. The reconstituted antibody can be stored for up to three months at

2- 8°C or for up to 12 months at -20°C or below. Avoid

repeated freeze and thaw cycles.

### Example



Competitive ELISA of 25-OH Vitamin D3 standard curve using **THE™ 25-OH Vitamin D3 Antibody, mAb, Mouse** (GenScript, A01825)