

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 36-3391: Anti-Calbindin 1 (CALB1) Monoclonal Antibody(Clone: CALB1/2364)

Clonality: Monoclonal
Clone Name: CALB1/2364
Application: ELISA
Reactivity: Human
Gene: CALB1
Gene ID: 793
Uniprot ID: P05937

avian-type; CAB27; CALB 1; CALB1; CALB1, CALB1\_HUMAN; Calbindin 1 28kDa; Calbindin;

Alternative Name: Calbindin D28; D 28K; D-28K; D28K; OTTHUMP00000166027; OTTHUMP00000225441; RTVL H

protein; Vitamin D dependent calcium binding protein; Vitamin D dependent calcium binding

protein avian type; Vitamin D-dependent calcium-binding protein

**Isotype:** Mouse IgG1, kappa

Immunogen Information: Recombinant fragment (around aa 7-96) of human CALB1 protein (exact sequence is

proprietary)

## **Description**

The family of EF-hand type Ca2+-binding proteins includes Calbindin D28K, Calbindin D9K, S-100 (also designated oncomodulin). Calbindin D28K, also known as calbindin, CALB1, D-28K or vitamin D-dependent calcium-binding protein, is a 261-amino acid protein with 6 EF-hand domains, 4 of which are active calcium-binding domains. Expressed in brain, ovary, uterus, testis, pancreas, liver, kidney and intestine, Calbindin D28K acts as a calcium-buffering agent and alters the activity of the plasma membrane ATPase. In neuronal cells, Calbindin D28K modulates calcium channel activity, calcium transients and intrinsic neuronal firing activity. Also, Calbindin D28K has been implicated to play a role in apoptosis and microtubule function.

## **Product Info**

**Amount :** 20 μg / 100 μg

Content: 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage condition :** Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

is stable for 24 months. Non-hazardous.

## **Application Note**

ELISA (For coating, order antibody without BSA);



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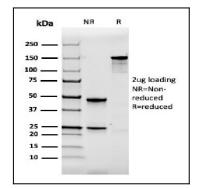


Fig. 1: SDS-PAGE Analysis Purified Calbindin 1 Mouse Monoclonal Antibody (CALB1/2364). Confirmation of Integrity and Purity of Antibody.

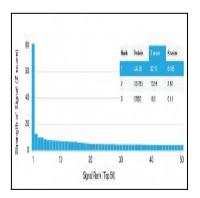


Fig. 2: Analysis of Protein Array containing more than 19,000 full-length human proteins using Calbindin Mouse Monoclonal Antibody (CALB1/2364) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-lgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.