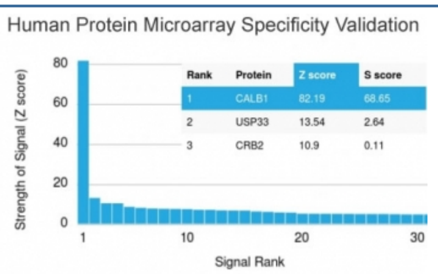
Calbindin 1 Antibody / CALB1 [clone CALB1/2364] (V8169)

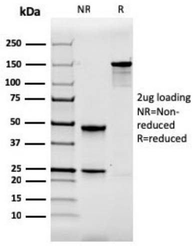
Catalog No.	Formulation	Size
V8169-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8169-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8169SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CALB1/2364
Purity	Protein G affinity chromatography
UniProt	P05937
Localization	Cytoplasmic, nuclear, secreted
Applications	ELISA (order BSA-free Format For Coating) :
Limitations	This Calbindin 1 antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Calbindin 1 antibody (clone CALB1/2364). These results demonstrate the foremost specificity of the CALB1/2364 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Calbindin 1 antibody as confirmation of integrity and purity.

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.

Application Notes

Optimal dilution of the Calbindin 1 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 7-96) was used as the immunogen for this Calbindin 1 antibody.

Storage

Store the Calbindin 1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).