

## Calcineurin B Antibody / PPP3R1 [clone BE2.1] (V8029)

Catalog No.	Formulation	Size
V8029-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8029-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8029SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Clone Name</b>	BE2.1
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P63098
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This Calcineurin B antibody is available for research use only.



## Description

Calcineurin is an enzyme that dephosphorylates serine and threonine residues in proteins. It is a heterodimer of a 59kDa catalytic A subunit and a 19kDa regulatory B subunit that is activated by the binding of calcium ions and calmodulin. Calcineurin is expressed in many tissues, but its levels are highest in the brain, where it may play a role in learning and memory. It has many substrates, including NFAT, a transcription factor that is activated by dephosphorylation. Complexes of the immuno-suppressants cyclosporine and FK506 with immunophilin proteins such as cyclophilin and FKBP12 are potent and specific inhibitors of Calcineurin activity. Alterations in Calcineurin activity are suspected to play a role in cardiac hypertrophy and graft versus host disease in organ transplantation.

## Application Notes

Optimal dilution of the Calcineurin B antibody should be determined by the researcher.

## Immunogen

A recombinant full-length human Calcineurin B protein was used as the immunogen for the Calcineurin B antibody.

## Storage

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