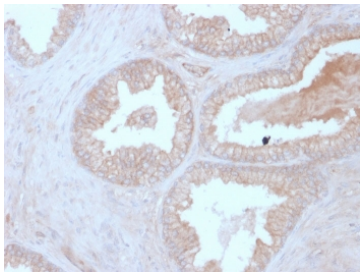
PPP3R1 Antibody / Calcineurin B [clone CALNB/2342] (V8030)

Catalog No.	Formulation	Size
V8030-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8030-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8030SAF-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	CALNB/2342
Purity	Protein G affinity chromatography
UniProt	P63098
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This PPP3R1 antibody is available for research use only.



IHC staining of FFPE human prostate carcinoma with PPP3R1 antibody (clone CALNB/2342). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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 PPP3R1 antibody should be determined by the researcher.

Immunogen

A recombinant full-length human Calcineurin B protein was used as the immunogen for the PPP3R1 antibody.

Storage

Store the PPP3R1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).