



[Go to Product page](#)

Datasheet for ABIN6940383
anti-PPP3R1 antibody

Overview

Quantity:	100 µg
Target:	PPP3R1
Reactivity:	Human, Xenopus laevis
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PPP3R1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Staining Methods (StM), Coating (Coat)

Product Details

Immunogen:	Recombinant full-length human Calcineurin B protein
Clone:	BE2-1
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

Target Details

Target:	PPP3R1
Alternative Name:	PPP3R1 (PPP3R1 Products)
Background:	Calcineurin is an enzyme that dephosphorylates serine and threonine residues in proteins. It is a heterodimer of a 59 kDa catalytic A subunit and a 19 kDa regulatory B subunit that is activated by the binding of calcium ions and calmodulin. Calcineurin is expressed in many tissues, but its

Target Details

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.

Molecular Weight:	19kDa
Gene ID:	5534
UniProt:	P63098
Pathways:	RTK Signaling , WNT Signaling , Fc-epsilon Receptor Signaling Pathway , Protein targeting to Nucleus , VEGF Signaling , BCR Signaling

Application Details

Application Notes:	Positive Control: HeLa, MCF-7 or A431 cells. Human brain, breast or stomach tissue. Known Application: ELISA (For coating, order antibody without BSA), Western Blot (0.5-1.0 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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. No MSDS required.
Expiry Date:	24 months