

Calcineurin A / PPP3CA Antibody

Mouse Monoclonal Antibody [Clone BF1.1]

Catalog No	Format	Size
5530-MSM1-P0	Purified Ab with BSA and Azide	200ug/ml
5530-MSM1-P1	Purified Ab with BSA and Azide	200ug/ml
5530-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Western Blot (WB)	2-4ug/ml

Product Details	
Clone	BF1.1
Gene Name	PPP3CA
Immunogen	Recombinant full-length Calcineurin A protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	62kDa
Cellular Localization	Cell membrane, Cell projection, Cytoplasm, Dendritic spine, Myofibril, Sarcolemma, Sarcomere, Z line
Species Reactivity	Human
Positive Control	HeLa, MCF-7 or A431 cells. Prostate, Thyroid or Pancreas.

**Optimal dilution for a specific application should be determined.*

Product Images for Calcineurin A / PPP3CA Antibody

Specificity & Comments

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.

Research Areas

Cardiovascular, Immunology, MAPK Signaling, Signal Transduction

Known Applications & Suggested Dilutions

ELISA (For coating, order antibody without BSA) | Western Blot (1-2ug/ml) | Optimal dilution for a specific application should be determined.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/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 and Stability

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.