

## Calcineurin A / PPP3CA Antibody

Mouse Monoclonal Antibody [Clone CALNA/2353]

Catalog No	Format	Size
5530-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5530-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5530-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

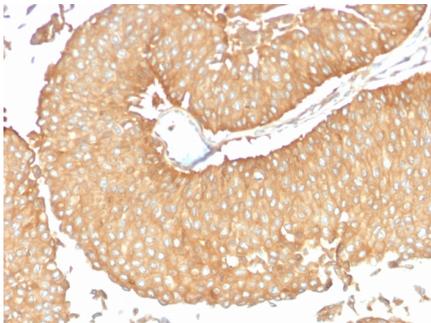
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

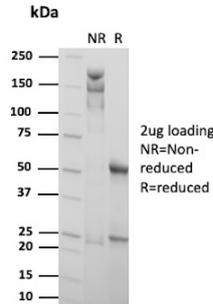
<b>Clone</b>	CALNA/2353
<b>Immunogen</b>	Recombinant full-length human Calcineurin A protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	62kDa
<b>Cellular Localization</b>	Cell membrane, Cell projection, Cytoplasm, Dendritic spine, Myofibril, Sarcolemma, Sarcomere, Z line
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	HeLa, MCF-7 or A431 cells. Prostate, Thyroid or Pancreas.

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

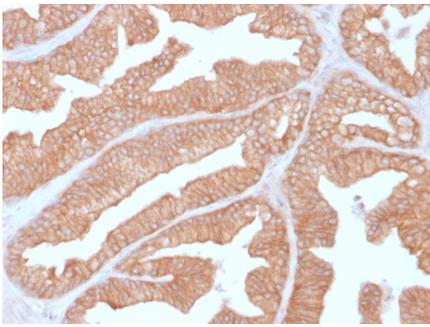
### Product Images for Calcineurin A / PPP3CA Antibody



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with Calcineurin A Mouse Monoclonal Antibody (CALNA/2353).



SDS-PAGE Analysis of Purified Protein phosphatase 3 catalytic subunit alpha Mouse Monoclonal Antibody (CALNA/2353). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Calceurin A Mouse Monoclonal Antibody (CALNA/2353).

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### 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.

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### 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.

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### 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.

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### 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.

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### Research Areas

Cardiovascular, Immunology, MAPK Signaling, Signal Transduction

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