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Calcineurin  $\alpha$  antibody**Catalog Number:** PM-1307**Background:** Calcineurin, a major soluble calmodulin binding protein in the brain, a  $\text{Ca}^{2+}$ /calmodulin dependent serine/threonine protein phosphatase, with a relatively narrow substrate specificity. This metalloenzyme, also known as phosphatase 2B, is a heterodimer composed of a calmodulin binding, catalytic alpha subunit 61 kDa, calcineurin A) and calcium binding beta subunit (18 kDa, calcineurin B). The  $\text{Ca}^{2+}$  binding subunit, calcineurin B, is immunologically conserved from yeast to mammals. The presence of 2 different calcineurin B isoforms (beta 1 and beta 2) has been reported in rat testis. The catalytic subunit of calcineurin, calcineurin A, isolated from different tissues or different organisms, exhibits some immunological heterogeneity. Further, there are at least 2 isoforms of calcineurin A in bovine brain (alpha 1 and alpha 2, 61 and 59 kDa, respectively).**Description:** Mouse polyclonal to Calcineurin  $\alpha$ .**Immunogen:** KLH conjugated synthetic peptide derived from Calcineurin  $\alpha$ .**Specificity:** This antibody has been selected for its ability to recognize Calcineurin  $\alpha$  of **Human, Mouse, Rabbit** and **Rat** in immunohistochemical staining.**Isotype:** Mouse IgG.**Size:** 0.2mL (1mg/mL).**Formulation:** 1% BSA, 0.01M phosphate-buffered saline, pH 7.4, 0.05%  $\text{NaN}_3$ .**Purity:** Affinity chromatography purification by Protein A/G Column.**Application:**

- Western blotting: 1/100-500. Predicted Mol wt: 62 kDa;
- Immunohistochemistry in formalin fixed frozen section: 1:100-500;
- Immunohistochemistry in paraffin section: 1:100-500;
- Immunocytochemistry: 1/100-500;
- ELISA: 1/500;
- Optimal working dilutions must be determined by the end user.

**Antigen Retrieval of Tissue:** The paraffin section in 10mM citrate buffer, pH 6.0 or EDTA, pH 8.0 for 10~15mins is required the staining of paraffin sections.**Cellular Localization:** Nuclear.**Storage:** Store at  $-20\text{ }^{\circ}\text{C}$  for one year. Lyophilized antibody is stable at room temperature for at least two month and for greater than a year when kept at  $-20\text{ }^{\circ}\text{C}$  to  $-70\text{ }^{\circ}\text{C}$ . When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody, the antibody is stable for at least six weeks at  $2-8\text{ }^{\circ}\text{C}$ . Avoid repeated freeze/thaw cycles.**Important Note:** Gently centrifuge microtube to remove product from lid. This product as supplied is intended for in vitro laboratory use only, not for use in human, therapeutic or diagnostic applications.