

## Calcineurin A

Cat.No. 387 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

### Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H <sub>2</sub> O, then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 2000 up to 1 : 5000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> 1 : 1000 up to 1 : 5000 <b>IHC:</b> 1 : 500 up to 1 : 1000 <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 521 from human Calcineurin (UniProt Id: Q08209)
Reactivity	Reacts with: rat (P63329), mouse (P63328), human (Q08209). Other species not tested yet.
Specificity	Specific for Calcineurin A.
matching control	387-0P

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

**Calcineurin** (PP2B) is a calcium/calmodulin dependent Ser/Thr protein phosphatase that is expressed at high levels in the CNS. It is a heterodimeric protein consisting of a catalytic subunit **calcineurin A** containing an active site dinuclear metal center, and a tightly associated, myristoylated, Ca<sup>2+</sup>-binding subunit called calcineurin B. Calcineurin is involved in many cellular processes and Ca<sup>2+</sup>-dependent signal transduction pathways.

### Selected General References

Beta-amyloid causes downregulation of calcineurin in neurons through induction of oxidative stress. Celsi F, Svedberg M, Unger C, Cotman CW, Carri MT, Ottersen OP, Nordberg A, Torp R *Neurobiology of disease* (2007) 26(2): 342-52.

Calcineurin: form and function. Rusnak F, Mertz P *Physiological reviews* (2000) 80(4): 1483-521.

Involvement of a calcineurin/inhibitor-1 phosphatase cascade in hippocampal long-term depression. Mulkey RM, Endo S, Shenolikar S, Malenka RC *Nature* (1994) 369(6480): 486-8.

Calcineurin is a common target of cyclophilin-cyclosporin A and FKBP-FK506 complexes. Liu J, Farmer JD, Lane WS, Friedman J, Weissman I, Schreiber SL *Cell* (1991) 66(4): 807-15.

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