

Calcineurin A Polyclonal Antibody

CATALOG NO: 3075-30T 30 µg (Trial size)
3075-100 100 µg

HOST: Rabbit

SPECIES REACTIVITY: Human, Mouse, Rat, Rabbit, Bovine, Hamster, Dog

IMMUNOGEN:

Synthetic peptide corresponding to residues surrounding amino acids 267 of human Calcineurin A (Internal ID# BV-C34).

FORMULATION:

0.2 mg/ml affinity purified, rabbit anti-Calcineurin A polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND DESCRIPTION:

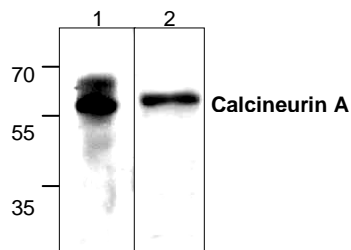
Calcineurin is a calcium/calmodulin-dependent serine/threonine protein phosphatase. The active enzyme is a heterodimer consisting of a catalytic A subunit of 61 kDa and a myristylated regulatory B subunit of 19 kDa that binds calcium. The catalytic A subunit consists of an amino terminal catalytic domain, followed by calmodulin and B subunit binding sites, and a carboxyl-terminal autoinhibitory domain. Calcineurin is the target of immunosuppressant drugs such as cyclosporin A and FK506. Calcineurin controls the translocation of nuclear factors of activated T cells (NFAT), a family of transcriptional activators that control the expression of cytokine genes essential to immune response, from the cytosol into the nucleus of activated T cells. Calcineurin has been proposed to play an important role in mediating calcium-activated cell death.

SPECIFICITY:

The immunoaffinity purified antibody detects a 61 kDa band, corresponding to the expected molecular weight of Calcineurin A on immunoblots. A 32 kDa band can also be detected in human samples, presumably to be the cleavage product of Calcineurin A.

APPLICATION AND USAGE:

The antibody can be used for Western blotting (1-4 µg/ml). Per researcher's feedback, it can also be used for immunoprecipitation (10-20 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3075BP-50) is available separately.



Cat.# 3075-100

Western blot analysis of Calcineurin A in lysate from Jurkat cells (Lane 1) and rat kidney (Lane 2).

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies