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Human Calcineurin A/PPP3CA antibody

Catalog Number: ATGA0505

PRODUCT INFORMATION

Catalog number

ATGA0505

Clone No.

AT1E11

Product type

Monoclonal Antibody

UnitProt No.

Q08209

NCBI Accession No.

NP 001124163

Alternative Names

Protein phosphatase 3 catalytic subunit alpha, CAM-PRP catalytic subunit, Calcineurin A alpha, Calmodulin-dependent calcineurin A subunit alpha isoform, CNA alpha, Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform, CALNA, CALN, CNA1, PPP2B

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human PPP3CA (1-511aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

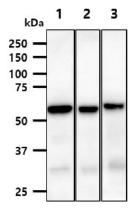
PPP3CA, also known as Calcineurin A, is a major soluble calmodulin binding protein in the brain, a Ca2+/calmodulin dependent serine/threonine protein phosphatase, with a relatively narrow substrate specificity. It activates the T cells of the immune system and can be blocked by drugs. PPP3CA activates NFATc, a transcription factor by dephosphorylating it. The activated NFATc is then translocated into the nucleus, where it upregulates the expression of interleukin 2.

General References

Ostenfeld MS., et al. (2010) Oncogene. 29(7):1073-84. Rodriguez A., et al. (2009) Mol Cell. 33(5):616-26.

DATA

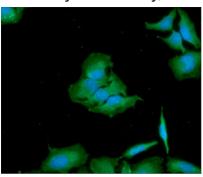
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPP3CA antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: 293T cell lysate Lane 3.: LNCaP cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PPP3CA in HeLa cells. The cell was stained with ATGA0505 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

