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Human CPI-17/PPP1R14A antibody

Catalog Number: APP0832

PRODUCT INFORMATION

Catalog number

APP0832

Clone No.

4H10

Product type

Monoclonal Antibody

UnitProt No.

Q96A00

NCBI Accession No.

NP 150281

Alternative Names

Regulatory subunit 14A, Regulatory (inhibitor) subunit 14A CPI 17, Regulatory (inhibitor) subunit 14A, Protein phosphatase 1 regulatory subunit 14A, Protein phosphatase 1 regulatory (inhibitor) subunit 14A, Protein phosphatase 1, PPP1R14A, PPP1INL, PKC potentiated inhibitory protein of PP1, CPI-17, CPI 17 alpha

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 PPP1R14A (1-147aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-G 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

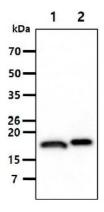
PPP1R14A (Protein phosphatase 1 regulatory subunit 14A) is a phosphorylation-dependent inhibitory protein for smooth muscle myosin phosphate. Myosin phosphatase can reverse MYL (myosin light chain) phosphorylation to induce a state of relaxation. However, during agonist-induced contraction at constant Ca2+ concurrent inhibition of myosin phosphatase leads to increases in MYL phosphorylation and tension. These calcium-independent increases in myosin phosphorylation and tension are termed calcium sensitization.

General References

Hamaguchi., et al. (2000) Biochem. Biophys. Res Commun. 274(3):825-30. Eto M., et al. (1997) FEBS Lett. 410(2-3):356-60. Lartey I., et al. (2007) Biol Reprod. 76(6):971-82.

DATA

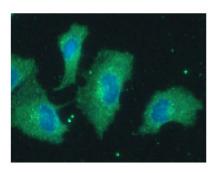
Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPP1R14A antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : A549 cell lysate Lane 2. : NIH-3T3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PPP1R14A in A549 cells. The cell was stained with APP0832 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

