# NKMAXBio We support you, we believe in your research

# **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.



# NKMAXBIO We support you, we believe in your research

# **Human CPI-17/PPP1R14A antibody**

Catalog Number: APP0832

## **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**

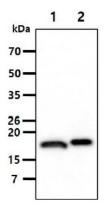
PPP1R14A (Protein phosphatase 1 regulatory subunit 14A) is a phosphorylation-dependent inhibitory protein for smooth muscle myosin phosphate. Myosin phosphatase can reverse MYL (myosin light chain) phosphorylation to induce a state of relaxation. However, during agonist-induced contraction at constant 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**

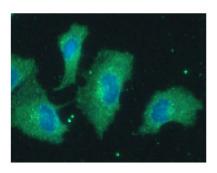
# Western blot analysis (WB)



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).

