

32-6015: Mouse Anti Human Protein Phosphatase-1 Regulatory Subunit-14A(Clone:P4H10AT.)

Clonality :	Monoclonal
Clone Name :	P4H10AT.
Application :	ELISA,WB
Gene :	PPP1R14A
Gene ID :	94274
Uniprot ID :	Q96A00
Format :	Purified
Alternative Name :	Protein phosphatase 1 regulatory subunit 14A,17 kDa PKC-potentiated inhibitory protein of PP1,CPI17,CPI-17,PPP1INL,PPP1R14A.
Isotype :	Mouse IgG2a heavy chain and ? light chain.
Immunogen Information :	Anti-human PPP1R14A mAb is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with recombinant human PPP1R14A amino acids 1-147 purified from E. coli.

Description

PPP1R14A is a phosphorylation-dependent inhibitor of smooth muscle myosin phosphatase. Inhibition of PPP1R14A results to increased myosin phosphorylation and enhances smooth muscle contraction in the absence of increased intracellular Ca²⁺ concentration. 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. Human pregnancy is characterized by the increases of PKN1 expression and CPI-17 phosphorylation in the myometrium. PPP1R14A is mapped to chromosome 19q13.13-q13.2. PPP1R14A binds directly to protein kinase C and casein kinase I. PPP1R14A siRNA decreased the level of merlin phosphorylation and consequently Ras and ERK activity in human tumor cell lines. PKC/CPI-17 medi

Product Info

Amount :	20 µg
Purification :	PPP1R14A antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
Content :	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

PPP1R14A antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500 ~ 1,000. Recommended starting dilution is 1:500.