

ターゲット情報

機能	Regulates myosin phosphatase activity.
組織特異性	Expressed in striated muscles, specifically in type 2a fibers (at protein level).
配列類似性	Contains 6 ANK repeats.
発生段階	Induced by 2-fold during pregnancy, including in abdominus rectus muscle.
ドメイン	Heterotetramerization is mediated by the interaction between a coiled-coil of PRKG1 and the leucine/isoleucine zipper of PPP1R12A/MBS, the myosin-binding subunit of the myosin phosphatase.
翻訳後修飾	Phosphorylated by CIT (Rho-associated kinase) (By similarity). Phosphorylated cooperatively by ROCK1 and CDC42BP on Thr-696. Phosphorylated on upon DNA damage, probably by ATM or ATR. In vitro, phosphorylation of Ser-695 by PKA and PKG appears to prevent phosphorylation of the inhibitory site Thr-696, probably mediated by PRKG1.
細胞内局在	Cytoplasm. Along actomyosin filaments and stress fibers.

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