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Phospho-MYPT1 (Thr696) Antibody

Rabbit Polyclonal Antibody
Catalog # ABV11845

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	O14974
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	115281

Additional Information

Gene ID	4659
Positive Control	WB: HEK293 cell lysates; IHC: human breast cancer tissue; IFC: HEK293 cells
Application & Usage	WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100
Alias Symbol	PPP1R12A
Other Names	MBS, MYPT1, Protein phosphatase 1 regulatory subunit 12A, Myosin phosphatase-targeting subunit 1, Myosin phosphatase target subunit 1, Protein phosphatase myosin-binding subunit, Myosin phosphatase
Appearance	Colorless liquid
Formulation	In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Phospho-MYPT1 (Thr696) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

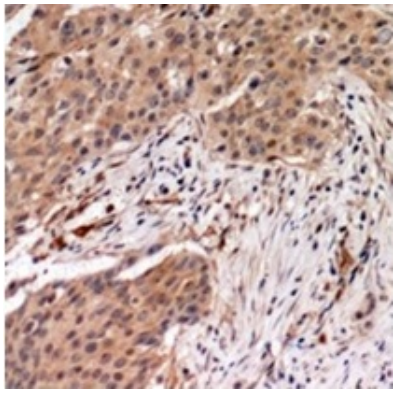
Name	PPP1R12A (HGNC:7618)
Function	Key regulator of protein phosphatase 1C (PPP1C). Mediates binding to myosin. As part of the PPP1C complex, involved in dephosphorylation of PLK1. Capable of inhibiting HIF1AN-dependent suppression of HIF1A activity.
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton, stress fiber. Note=Also along actomyosin filaments

Tissue Location	Expressed in striated muscles, specifically in type 2a fibers (at protein level).

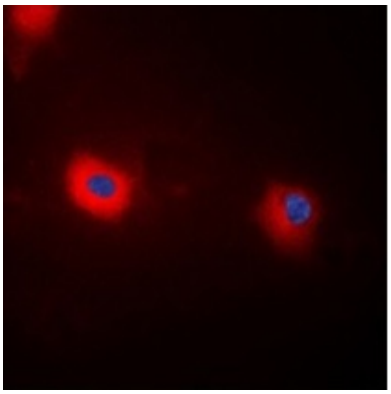
Background

Key regulator of protein phosphatase 1C (PPP1C). Mediates binding to myosin. As part of the PPP1C complex, involved in dephosphorylation of PLK1. Capable of inhibiting HIF1AN-dependent suppression of HIF1A activity.

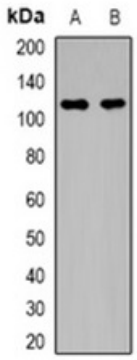
Images



Immunohistochemical analysis of MYPT1(pT696) staining in H.breast cancer formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of MYPT1 (pT696) staining in HEK293T cells.



Western blot analysis of MYPT1 treated (A); HEK293T UV-treated (B) whole cell lysates.