10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MYPT1 (Ser507) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22267a

Product Information

Application	WB, E
Primary Accession	O14974
Other Accession	Q9DBR7
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56872
Calculated MW	115281

Additional Information

Gene ID	4659
Other Names	Protein phosphatase 1 regulatory subunit 12A, Myosin phosphatase-targeting subunit 1, Myosin phosphatase target subunit 1, Protein phosphatase myosin-binding subunit, PPP1R12A, MBS, MYPT1
Target/Specificity	This MYPT1 (Ser507) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 481-514 amino acids from the human MYPT1.
Dilution	WB~~1:4000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MYPT1 (Ser507) 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).

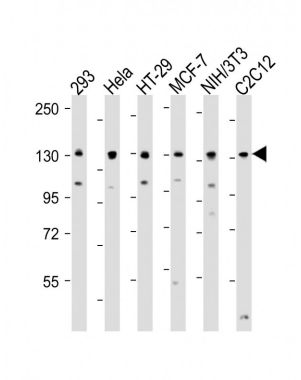
Background

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.

References

Takahashi N.,et al.Genomics 44:150-152(1997).
Guo J.H.,et al.Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
Xia D.,et al.Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.E.,et al.Nature 440:346-351(2006).

Images



All lanes : Anti-MYPT1 (Ser507) Antibody at 1:4000 dilution Lane 1: 293 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: HT-29 whole cell lysate Lane 4: MCF-7 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: C2C12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 115 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.