

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 |
| 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).

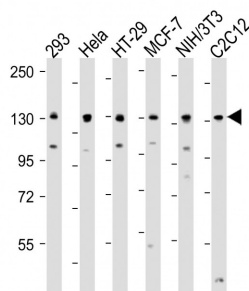
Background

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'.