

# Phospho-MYPT1 (Ser668) Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3920a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O14974</a>
<b>Other Accession</b>	<a href="#">Q90623</a> , <a href="#">Q9DBR7</a> , <a href="#">Q10728</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Chicken, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB56874
<b>Calculated MW</b>	115281

## Additional Information

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<b>Gene ID</b>	4659
<b>Other Names</b>	Protein phosphatase 1 regulatory subunit 12A, Myosin phosphatase-targeting subunit 1, Myosin phosphatase target subunit 1, Protein phosphatase myosin-binding subunit, PPP1R12A, MBS, MYPT1
<b>Target/Specificity</b>	This Phospho-MYPT1 (Ser668) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 641-674 amino acids from human MYPT1.
<b>Dilution</b>	WB~~1:500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	Phospho-MYPT1 (Ser668) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PPP1R12A ( <a href="#">HGNC:7618</a> )
<b>Function</b>	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

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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.

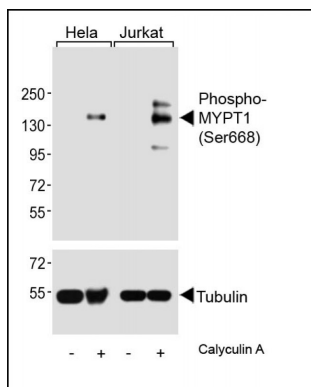
## References

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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

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Western blot analysis of lysates from HeLa, Jurkat cell line, untreated or treated with Calyculin A, 100nM, using (Cat. #AP3920a)(upper) or Tubulin (lower).

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