

## Datasheet: AHP2705

<b>Description:</b>	RABBIT ANTI PPP1R12A (pSer668)
<b>Specificity:</b>	PPP1R12A (pSer668)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antiserum to PPP1R12A (pSer668) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative

0.02% Sodium Azide

### Stabilisers

50% Glycerol

### Immunogen

Phospho specific-peptide corresponding to residues surrounding serine 668 of human PPP1R12A

### External Database Links

#### UniProt:

[O14974](#) [Related reagents](#)

#### Entrez Gene:

[4659](#) PPP1R12A [Related reagents](#)

### Synonyms

MBS, MYPT1

**Specificity** **Rabbit anti PPP1R12A (pSer668) antibody** recognizes human protein phosphatase regulatory subunit 12A (PPP1R12A), also known as MBS or MYPT1, when phosphorylated at serine 668. PPP1R12A is the main regulatory subunit of myosin phosphatases (MPs ) ([Butler, T. et al. 2013](#)). PKA and/or PKG phosphorylate PPP1R12A at serine 668, serine 692, serine 695, and serine 852 in smooth muscle. Insulin stimulates the phosphorylation of PPP1R12A at serine 668 (and serine 477, serine 478, serine 507 and serine 695) implying a role for PPP1R12A and these phosphorylation events in insulin signal transduction ([Chao, A. et al. 2012](#)).

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**Storage** Store at -20°C  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10049 available at:  
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

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**Regulatory** For research purposes only

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## Related Products

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