

Rabbit Myosin Phosphatase Polyclonal Antibody | anti-PPP1R12A antibody

Anti-Myosin Phosphatase antibody

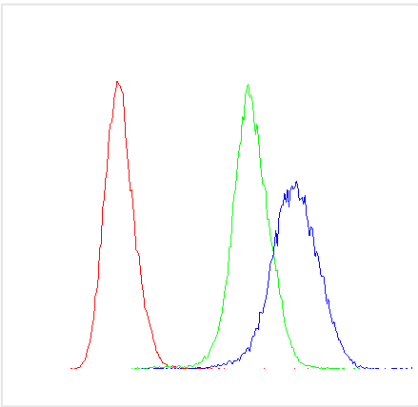
CATALOG # AAA44998	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

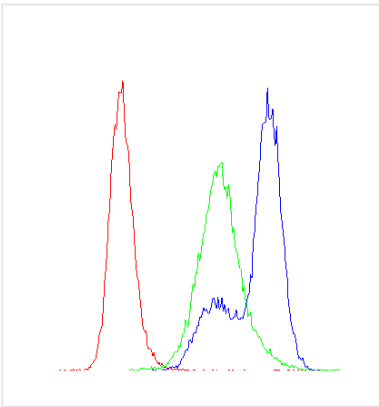
Myosin Phosphatase; Polyclonal Antibody; Anti-Myosin Phosphatase antibody; Protein phosphatase 1 regulatory subunit 12A; protein phosphatase 1; regulatory subunit 12A; M130 antibody; MBS antibody; MGC133042 antibody; Myosin binding subunit antibody; Myosin phosphatase target subunit 1 antibody; Myosin phosphatase targeting subunit 1 antibody; Myosin phosphatase-targeting subunit 1 antibody; MYPT 1 antibody; MYPT1 antibody; MYPT1_HUMAN antibody; PPP1R12A antibody; Protein phosphatase 1 regulatory inhibitor subunit 12A antibody; Protein phosphatase 1 regulatory subunit 12A antibody; Protein phosphatase 1; regulatory(inhibitor) subunit 12A antibody; Protein phosphatase myosin binding subunit antibody; Protein phosphatase myosin-binding subunit antibody; anti-PPP1R12A antibody

PRODUCT SPECIFICATIONS

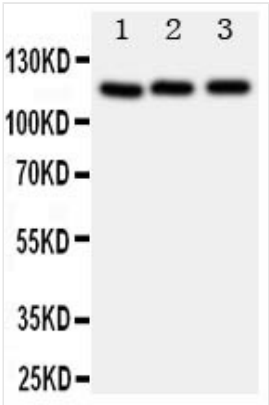
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	1030
Applicable Applications for anti-PPP1R12A antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Myosin Phosphatase (1-17aa MKMADAKQKRNEQLKRW), identical to the related rat and mouse sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of U251 cells using anti-PPP1R12A antibody (AAA44998).Overlay histogram showing U251 cells stained with AAA44998 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPP1R12A Antibody (AAA44998,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of HeLa cells using anti-PPP1R12A antibody (AAA44998).Overlay histogram showing HeLa cells stained with AAA44998 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPP1R12A Antibody (AAA44998,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Anti-PPP1R12A antibody, AAA44998, Western blottingAll lanes: Anti PPP1R12A (AAA44998) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: 293T Whole Cell Lysate at 40ugLane 3: HELA Whole Cell Lysate at 40ugPredicted bind size: 115KDObserved bind size: 115KD

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1R12A antibody	Description: Rabbit IgG polyclonal antibody for Protein phosphatase 1 regulatory subunit 12A(PPP1R12A) detection. Tested with WB in Human, Mouse, Rat. Background: PPP1R12A(Protein phosphatase 1 regulatory subunit 12A), also called MYPT1(Myosin phosphatase target subunit 1), is an enzyme that in humans is encoded by the PPP1R12A gene. PPP1R12A is one of the subunits of myosin phosphatase. Sequencing analysis showed that human PPP1R12A contains 1,030 amino acids with a calculated molecular mass of approximately 115 kD. The PPP1R12A gene is mapped on 12q21.2-q21.3. PPP1R12A is the protein that regulates PP1 function in smooth muscle relaxation. The cellular MYPT1-PP1-delta - specific inhibitor CPI17 caused a loss of merlin function characterized by merlin phosphorylation, Ras activation, and transformation. Jin et al. concluded that PPP1R12A and its substrate merlin are part of a previously undescribed tumor suppressor cascade that can be hindered in 2 ways, by mutation of the NF2 gene and by upregulation of the oncoprotein CPI17.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	41017262
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NCBI GeneID	4659
UniProt Accession #	O14974; Q2NKL4; Q569H0; Q86WU3; Q8NFR6; Q9BYH0; B4DZ09; F8VWB4
Molecular Weight	105,641 Da
NCBI Official Full Name	Protein phosphatase 1 regulatory subunit 12A
NCBI Official Synonym Full Names	protein phosphatase 1, regulatory subunit 12A
NCBI Official Symbol	PPP1R12A
NCBI Official Synonym Symbols	MBS; M130; MYPT1
NCBI Protein Information	protein phosphatase 1 regulatory subunit 12A; myosin binding subunit; myosin phosphatase, target subunit 1; myosin phosphatase-targeting subunit 1; protein phosphatase myosin-binding subunit; protein phosphatase 1, regulatory (inhibitor) subunit 12A
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 12A
UniProt Gene Name	PPP1R12A
UniProt Synonym Gene Names	MBS; MYPT1; Myosin phosphatase target subunit 1
UniProt Entry Name	MYPT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/myosin-phosphatase-antibody-western-blot-elisa/44998>