

## Rabbit anti-Human PPP1R3A Polyclonal Antibody | anti-PPP1R3A antibody

PPP1R3A Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                 |
|-----------|--------|------------|--------------------------------------------------------------|
| AAA325001 | Rabbit | Human      | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

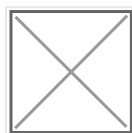
### PRODUCT SYNONYMS

PPP1R3A; Polyclonal Antibody; PPP1R3A Antibody; Glycogen and sarcoplasmic reticulum binding subunit; skeletal muscle; Glycogen associated regulatory subunit of protein phosphatase 1; GM; PP1G; PPP1R3; PPR3A\_HUMAN; Protein phosphatase 1 glycogen-associated regulatory subunit; Protein phosphatase 1 glycogen-targeting subunit; muscle; Protein phosphatase 1 regulatory subunit 3A; Protein phosphatase 1 regulatory subunit GM; protein phosphatase 1; regulatory (inhibitor) subunit 3A; Protein phosphatase 1; regulatory subunit 3; Protein phosphatase type-1 glycogen targeting subunit; RG1; Serine/threonine specific protein phosphatase; Type 1 protein phosphatase skeletal muscle glycogen targeting subunit; anti-PPP1R3A antibody

### PRODUCT SPECIFICATIONS

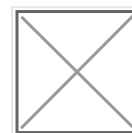
|                                                   |                                                                                               |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                        |
| Reactivity                                        | Human                                                                                         |
| Clonality                                         | Polyclonal                                                                                    |
| Isotype                                           | IgG                                                                                           |
| Specificity                                       | PPP1R3A antibody detects endogenous levels of total PPP1R3A                                   |
| Purity/Purification                               | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                       | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                     | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                   | 1122                                                                                          |
| Applicable Applications for anti-PPP1R3A antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                  |
| Immunogen                                         | A synthesized peptide                                                                         |
| Subcellular Location                              | Membrane.                                                                                     |
| Tissue Specificity                                | Skeletal muscle and heart.                                                                    |
| Conjugation                                       | Unconjugated                                                                                  |
| Preparation and Storage                           | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

### IMAGES



#### WB (Western Blot)

Western blot analysis of extracts from COLO cells using PPP1R3A antibody.



#### IF (Immunofluorescence)

AAA325001 staining MCF7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PPP1R3A antibody | Function: Seems to act as a glycogen-targeting subunit for PP1. PP1 is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Plays an important role in glycogen synthesis but is not essential for insulin activation of glycogen synthase (By similarity).<br>Subunit Structure: Interacts with PPP1CC catalytic subunit of PP1, and associates with glycogen.<br>Post-translational Modifications: Phosphorylation at Ser-46 by ISPK stimulates the dephosphorylation of glycogen synthase and phosphorylase kinase.<br>Similarity: The CBM21 domain is known to be involved in the localization to glycogen and is characteristic of some regulatory subunit of phosphatase complexes. |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 167614502                                              |
| NCBI GeneID                      | 5506                                                   |
| NCBI Accession #                 | NP_002702.2                                            |
| NCBI GenBank Nucleotide #        | NM_002711.3                                            |
| UniProt Accession #              | Q16821; O43476; Q75LN8; Q7KYM8; Q86UI6; A0AVQ2; A4D0T6 |
| Molecular Weight                 | Observed: 140 kD<br>Predicted: 126 kDa                 |
| NCBI Official Full Name          | protein phosphatase 1 regulatory subunit 3A            |
| NCBI Official Synonym Full Names | protein phosphatase 1 regulatory subunit 3A            |
| NCBI Official Symbol             | PPP1R3A                                                |
| NCBI Official Synonym Symbols    | GM; PP1G; PPP1R3                                       |
| NCBI Protein Information         | protein phosphatase 1 regulatory subunit 3A            |
| UniProt Protein Name             | Protein phosphatase 1 regulatory subunit 3A            |
| UniProt Gene Name                | PPP1R3A                                                |
| UniProt Synonym Gene Names       | PP1G; RG1                                              |

**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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