

# PPP2R4 Rabbit pAb

Catalog # AP97664

## Product Information

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| <b>Application</b>         | IHC-P, IHC-F, IF                                                                                                                                                                                                |
| <b>Primary Accession</b>   | <a href="#">Q15257</a>                                                                                                                                                                                          |
| <b>Other Accession</b>     | <a href="#">Q15257</a>                                                                                                                                                                                          |
| <b>Host</b>                | Rabbit                                                                                                                                                                                                          |
| <b>Clonality</b>           | Polyclonal                                                                                                                                                                                                      |
| <b>Calculated MW</b>       | 40668                                                                                                                                                                                                           |
| <b>Physical State</b>      | Liquid                                                                                                                                                                                                          |
| <b>Immunogen</b>           | KLH conjugated synthetic peptide derived from human PPP2R4                                                                                                                                                      |
| <b>Epitope Specificity</b> | 271-358/258                                                                                                                                                                                                     |
| <b>Isotype</b>             | IgG                                                                                                                                                                                                             |
| <b>Purity</b>              | affinity purified by Protein A                                                                                                                                                                                  |
| <b>Buffer</b>              | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                               |
| <b>SIMILARITY</b>          | Belongs to the PTPA-type PPIase family.                                                                                                                                                                         |
| <b>SUBUNIT</b>             | Associates with PP2A heterodimeric core enzyme PP2A(D), composed of a 36 kDa catalytic subunit (subunit C) and a 65 kDa constant regulatory subunit (PR65 or subunit A). Interacts with PPP2CB (By similarity). |
| <b>Important Note</b>      | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                       |

## Additional Information

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| <b>Gene ID</b>     | 5524                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Other Names</b> | PARK25; PP2A; PPP2R4; PR53; 2610042B21Rik; PTPA_HUMAN; PTPA; PP2A, subunit B', PR53 isoform; Phosphotyrosyl phosphatase activator (PTPA); Serine/threonine-protein phosphatase 2A regulatory subunit 4; Serine/threonine-protein phosphatase 2A regulatory subunit B'; 5.2.1.8; PTPA_MOUSE; protein phosphatase 2 phosphatase activator; protein phosphatase 2A, regulatory subunit B' (PR 53); protein phosphatase 2A activator, regulatory subunit 4; protein phosphatase 2 regulatory subunit 4; phosphotyrosyl phosphatase activator; PP2A phosphatase activator |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                                                                                                                                                                                                                                                                                                                                                      |

## Protein Information

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| <b>Name</b> | PTPA ( <a href="#">HGNC:9308</a> ) |
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| <b>Synonyms</b>          | PPP2R4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Function</b>          | <p>PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides (By similarity). Acts as a regulatory subunit for serine/threonine-protein phosphatase 2A (PP2A) (PubMed:<a href="#">16916641</a>, PubMed:<a href="#">36073231</a>). Modulates PP2A activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPIase (PubMed:<a href="#">16916641</a>). Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg(2+) (By similarity). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg(2+) (in vitro) (PubMed:<a href="#">16916641</a>). The phosphotyrosyl phosphatase activity is dependent of an ATPase activity of the PP2A(D):PPP2R4 complex (PubMed:<a href="#">16916641</a>). Is involved in apoptosis; the function appears to be independent from PP2A (PubMed:<a href="#">17333320</a>).</p> |
| <b>Cellular Location</b> | Cytoplasm. Nucleus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tissue Location</b>   | Widely expressed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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