

Rabbit PPP2R4 Polyclonal Antibody | anti-PPP2R4 antibody

PPP2R4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326452	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

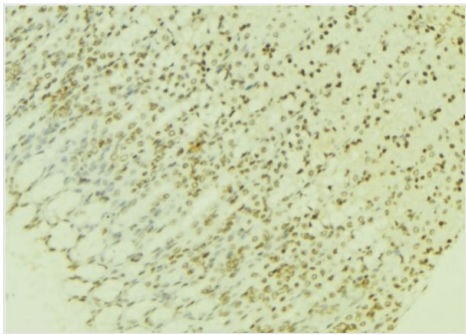
PRODUCT SYNONYMS

PPP2R4; Polyclonal Antibody; PPP2R4 Antibody; subunit B"; KIAA0044; MGC2184; Phosphotyrosyl phosphatase activator; PP2A; PP2A phosphatase activator; PP2A subunit B'; PP2A subunit B' isoform PR53; PP2A subunit B' PR53 isoform; PR53; PR53 isoform; Protein phosphatase 2; regulatory subunit B-prime; Protein phosphatase 2A activator regulatory subunit 4; Protein phosphatase 2A regulatory subunit B' (PR 53); PTPA; PTPA_HUMAN; Serine/threonine protein phosphatase 2A regulatory subunit B'; Serine/threonine-protein phosphatase 2A activator; Serine/threonine-protein phosphatase 2A regulatory subunit 4; Serine/threonine-protein phosphatase 2A regulatory subunit B"; anti-PPP2R4 antibody

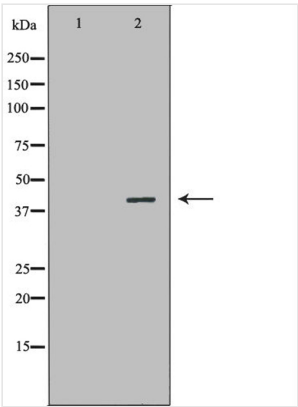
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PPP2R4 antibody detects endogenous levels of total PPP2R4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	288
Applicable Applications for anti-PPP2R4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PPP2R4
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (90%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326452 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of MCF7, using PPP2R4 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP2R4 antibody

Description: Protein phosphatase 2A is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2A holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B''/PR72 families. These different regulatory subunits confer distinct enzymatic specificities and intracellular localizations to the holoenzyme. The product of this gene belongs to the B' family. This gene encodes a specific phosphotyrosyl phosphatase activator of the dimeric form of protein phosphatase 2A. Alternative splicing results in multiple transcript variants encoding different isoforms.

Function: PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Acts as a regulatory subunit for serine/threonine-protein phosphatase 2A (PP2A) modulating its activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPlase. Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg2+ (By similarity). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg2+ (in vitro). The phosphotyrosyl phosphatase activity is dependent of an ATPase activity of the PP2A(D):PPP2R4 complex. Is involved in apoptosis; the function appears to be independent from PP2A.

Subunit Structure: 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) (PubMed:16916641). Interacts with PPP2CB (By similarity).

Similarity: Belongs to the PTPA-type PPlase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	301129290
NCBI GeneID	5524
NCBI Accession #	NP_001180326.1
NCBI GenBank Nucleotide #	NM_001193397.1
UniProt Accession #	Q15257; Q15258; Q53GZ3; Q5TZQ2; Q9BUK1; Q9NNZ7; Q9NNZ8; Q9NNZ9; A2A347; A9IZU4; B4DXM4
Molecular Weight	Observed: 40 kDa Predicted: 41 kDa
NCBI Official Full Name	serine/threonine-protein phosphatase 2A activator isoform e
NCBI Official Synonym Full Names	protein phosphatase 2 phosphatase activator
NCBI Official Symbol	PTPA
NCBI Official Synonym Symbols	PP2A; PR53; PPP2R4

NCBI Protein Information	serine/threonine-protein phosphatase 2A activator
UniProt Protein Name	Serine/threonine-protein phosphatase 2A activator
UniProt Gene Name	PTPA
UniProt Synonym Gene Names	PTPA

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/ppp2r4-antibody-immunohistochemistry-western-blot-elisa/326452>