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PPP2R2A Recombinant Rabbit mAb

Catalog # AP98688

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P63151
Other Accession	P63151
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	51692
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the phosphatase 2A regulatory subunit B family. Contains 7 WD repeats.
SUBUNIT	Found in a complex with at least ARL2, PPP2CB, PPP2R1A, PPP2R2A, PPP2R5E and TBCD By similarity. PP2A consists of a common heterodimeric core enzyme, composed of a 36 kDa catalytic subunit (subunit C) and a 65 kDa constant regulatory subunit (PR65 or subunit A), that associates with a variety of regulatory subunits. Proteins that associate with the core dimer include three families of regulatory subunits B (the R2/B/PR55/B55, R3/B''/PR72/PR130/PR59 and R5/B'/B56 families), the 48 kDa variable regulatory subunit, viral proteins, and cell signaling molecules. Interacts with TP53.
Background Descriptions	The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes an alpha isoform of the regulatory subunit B55 subfamily. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]

Additional Information

Gene ID	5520
Other Names	B55; B55A; B55ALPHA; PR52A; PR55A; PR55alpha; 2410004D02Rik; mKIAA1541; 2ABA_HUMAN; PPP2R2A; PP2A subunit B isoform B55-alpha (B55); PP2A subunit B isoform PR55-alpha; PP2A subunit B isoform R2-alpha; PP2A subunit B isoform alpha; 2ABA_MOUSE; 2ABA_RABIT; 2ABA_RAT; PP2A subunit B isoform BRA; protein phosphatase 2 regulatory subunit Balpha; protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform; Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform (PP2A subunit B isoform B55-alpha) (PP2A subunit B isoform

	PR55-alpha) (PP2A subunit B isoform R2-alpha) (PP2A subunit B isoform alpha)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
Storage	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

Name	PPP2R2A
Function	Substrate-recognition subunit of protein phosphatase 2A (PP2A) that plays a key role in cell cycle by controlling mitosis entry and exit (PubMed:1849734, PubMed:33108758). Involved in chromosome clustering during late mitosis by mediating dephosphorylation of MKI67 (By similarity). Essential for serine/threonine-protein phosphatase 2A- mediated dephosphorylation of WEE1, preventing its ubiquitin-mediated proteolysis, increasing WEE1 protein levels, and promoting the G2/M checkpoint (PubMed:33108758).
Tissue Location	Expressed in all tissues examined.

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