

Rabbit PPP2R2A Polyclonal Antibody | anti-PPP2R2A antibody

PPP2R2A Antibody

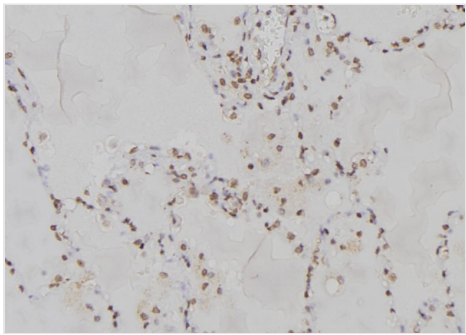
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326663	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

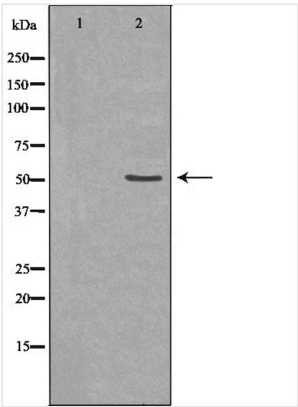
PPP2R2A; Polyclonal Antibody; PPP2R2A Antibody; 2ABA_HUMAN; Alpha isoform of regulatory subunit B55 protein phosphatase 2; B55A; B55ALPHA; calcineurin; PP2A subunit B B alpha isoform; PP2A subunit B B55 alpha isoform; PP2A subunit B isoform alpha; PP2A subunit B isoform B55-alpha; PP2A subunit B isoform PR55-alpha; PP2A subunit B isoform R2-alpha; PP2A subunit B PR55 alpha isoform; PP2A subunit B R2 alpha isoform; PR52A; PR55A; Protein phosphatase 2 (formerly 2A) regulatory subunit B (PR 52) alpha isoform; Protein phosphatase 2 (formerly 2A); regulatory subunit B (PR52); alpha isoform; Protein phosphatase 2 regulatory subunit B alpha; Protein phosphatase 2 regulatory subunit B alpha isoform; Protein phosphatase 2 regulatory subunit Balpha; Serine/threonine protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform; Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform; Testicular tissue protein Li 156; anti-PPP2R2A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PPP2R2A antibody detects endogenous levels of total PPP2R2A
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	457
Applicable Applications for anti-PPP2R2A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PPP2R2A
Tissue Specificity	Expressed in all tissues examined.
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 (100%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326663 at 1/100 staining Human lung 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 rat brain, using PPP2R2A antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP2R2A antibody

Description: Protein phosphatase 2A subunit B isoform R2-alpha (PPP2R2A) is the component of regulatory subunit B of serine/threonine protein phosphatase 2A (PP2A). PPP2R2A belongs to the R2/B55/PR55 family of regulatory subunit B (1). Evidence suggests that subunit PPP2R2A enhances TGF-beta, Activin, and Nodal signaling pathways (7) and may play an important role in cell cycle regulation (2-4). PPP2R2A/PP2A, B55-alpha/PR55-alpha isoform interacts with the type I TGF-beta receptors via unique WD-40 repeats (5) that contribute to the anti-proliferative function of TGF-beta receptors (6).

Function: The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment.

Subunit Structure: 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 (By similarity). Interacts with TP53 (PubMed:17245430). Interacts with IER5 (PubMed:25816751).

Similarity: Belongs to the phosphatase 2A regulatory subunit B family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	294832006
NCBI GeneID	5520
NCBI Accession #	NP_001171062.1
NCBI GenBank Nucleotide #	NM_001177591.1
UniProt Accession #	P63151; P50409; Q00007; B2RBU8; B4E1T7
Molecular Weight	Observed: 52 kDa Predicted: 52 kDa
NCBI Official Full Name	serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform isoform 2
NCBI Official Synonym Full Names	protein phosphatase 2 regulatory subunit Balpha
NCBI Official Symbol	PPP2R2A
NCBI Official Synonym Symbols	B55A; PR52A; PR55A; B55ALPHA; PR55alpha
NCBI Protein Information	serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform
UniProt Protein Name	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform

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/ppp2r2a-antibody-immunohistochemistry-western-blot-elisa/326663>