

PP2A-alpha Polyclonal Antibody | anti-PP2A-alpha antibody

Anti-PP2A-alpha Antibody

CATALOG # AAA46436	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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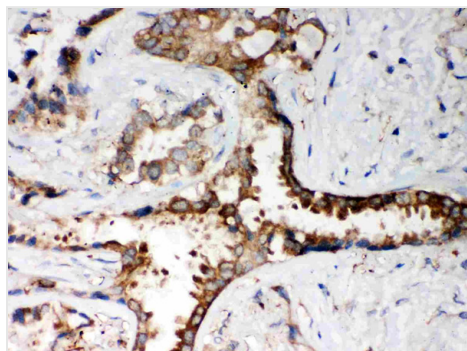
PRODUCT SYNONYMS

PP2A-alpha; Polyclonal Antibody; Anti-PP2A-alpha Antibody; Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform; PP2A alpha; PP2AA_HUMAN; PP2Aalpha; PP2Ac; PP2CA; PP2Calpha; PPP2CA; Protein phosphatase 2 (formerly 2A) catalytic subunit alpha isoform; Protein phosphatase 2 catalytic subunit alpha isoform; Protein phosphatase 2; catalytic subunit; alpha isozyme; Protein phosphatase 2A catalytic subunit; alpha isoform; Replication protein C; RP C; RP-C; RPC; Serine/threonine protein phosphatase 2A catalytic subunit alpha isoform; protein phosphatase 2; anti-PP2A-alpha antibody

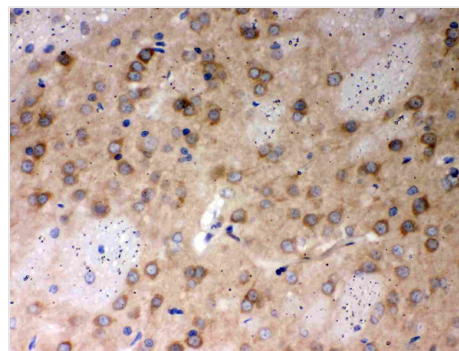
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	PP2A-alpha shares 100% cross reactivity with PPP2CB.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	309
Applicable Applications for anti-PP2A-alpha antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human PP2A-alpha recombinant protein (Position: M1-L309). Human PP2A-alpha shares 100% amino acid (aa) sequence identity with both mouse and rat PP2A-alpha.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

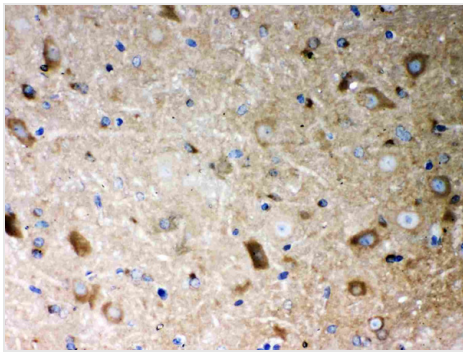
IMAGES



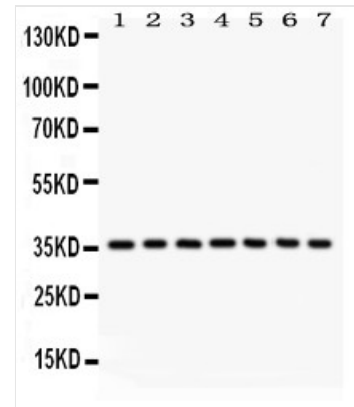
IHC (Immunohistochemistry)
Anti- PP2A-alpha Picoband antibody, AAA46436, IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemistry)
Anti- PP2A-alpha Picoband antibody, AAA46436, IHC(P)IHC(P): Rat Brain Tissue



IHC (Immunohistochemistry)
Anti- PP2A-alpha Picoband antibody, AAA46436, IHC(P)IHC(P): Mouse Brain Tissue



WB (Western Blot)
Anti- PP2A-alpha Picoband antibody, AAA46436, Western blottingAll lanes: Anti PP2A-alpha (AAA46436) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Mouse Kidney Tissue Lysate at 50ugLane 3: Human Placenta Tissue Lysate at 50ugLane 4: Rat Liver Tissue Lysate at 50ugLane 5: NIH Whole Cell Lysate at 40ugLane 6: PC-12 Whole Cell Lysate at 40ugLane 7: 293T Whole Cell Lysate at 40ugPredicted bind size: 36KDObserved bind size: 36KD

ADDITIONAL INFORMATION

Related Product Information for anti-PP2A-alpha antibody	Description: Rabbit IgG polyclonal antibody for Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform(PPP2CA) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: The catalytic subunit of human protein phosphatase 2A (PPP2CA) encodes a 309-amino acid polypeptide. It is localized to chromosome 5. The gene (approximately 30 kbp) is composed of seven exons and six introns. It is predicted to be important for phosphatase enzymatic activity. Methylation of the C-terminal leucine residue (Leu309) of protein serine/threonine phosphatase 2A catalytic subunit (PP2AC) is known to regulate catalytic activity in vitro. Furthermore, PP2A has a fundamental role in cardiac function, and suggests that disturbances in protein phosphatase expression and activity may cause or exacerbate the course of cardiac diseases.
References	1. Stone SR, Mayer R, Wernet W, Maurer F, Hofsteenge J, Hemmings BA. The nucleotide sequence of the cDNA encoding the human lung protein phosphatase 2A alpha catalytic subunit. Nucleic Acids Res. 1988 Dec 9; 16(23):11365. 2. Jones TA, Barker HM, da Cruz e Silva EF, Mayer-Jaekel RE, Hemmings BA, Spurr NK, Sheer D, Cohen PT. Localization of the genes encoding the catalytic subunits of protein phosphatase 2A to human chromosome bands 5q23-->q31 and 8p12-->p11.2, respectively. Cytogenet Cell Genet. 1993; 63(1):35-41. 3. Khew-Goodall Y, Mayer RE, Maurer F, Stone SR, Hemmings BA. Structure and transcriptional regulation of protein phosphatase 2A catalytic subunit genes. Biochemistry. 1991 Jan 8; 30(1):89-97. 4. Arino J, Woon CW, Brautigan DL, Miller TB Jr, Johnson GL. Human liver phosphatase 2A: cDNA and amino acid sequence of two catalytic subunit isotypes. Proc Natl Acad Sci U S A. 1988 Jun; 85(12):4252-6. 5. Bryant JC, Westphal RS, Wadzinski BE. Methylated C-terminal leucine residue of PP2A catalytic subunit is important for binding of regulatory Balpha subunit. Biochem J. 1999 Apr 15; 339 (Pt 2):241-6. 6. Gergs U, Boknik P, Buchwalow I, Fabritz L, Matus M, Justus I, Hanske G, Schmitz W, Neumann J. Overexpression of the catalytic subunit of protein phosphatase 2A impairs cardiac function. J Biol Chem. 2004 Sep 24; 279(39):40827-34.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506017
NCBI GeneID	5515
NCBI Accession #	NP_002706.1
NCBI GenBank Nucleotide #	NM_002715.2
UniProt Accession #	P67775; P05323; P13197
Molecular Weight	29,735 Da
NCBI Official Full Name	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform

NCBI Official Synonym Full Names	protein phosphatase 2 catalytic subunit alpha
NCBI Official Symbol	PPP2CA
NCBI Official Synonym Symbols	RP-C; PP2Ac; PP2CA; PP2Calpha
NCBI Protein Information	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
UniProt Protein Name	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
UniProt Gene Name	PPP2CA
UniProt Synonym Gene Names	PP2A-alpha; RP-C
UniProt Entry Name	PP2AA_HUMAN

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/pp2a-alpha-antibody-immunohistochemistry-western-blot-elisa/46436>