

BOSTER BIOLOGICAL TECHNOLOGY

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Anti-PP2A-alpha/PPP2CA Antibody

Catalog Number: PA1068

Description

Gene Name	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
Protein Name	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform(PP2A-alpha)
Size	100μg/vial
Form	Lyophilized
lg Type	
Purification	Immunogen affinity purified.
Species	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PP2A-alpha(6-20aa FTKELDQWIEQLNEC), identical to the related rat and mouse sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Clonality	2596

Applications

	Concentration	Tested Species	Predicted Species	
Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml, Human, Rat, Mouse, By Heat				
Western blot, 0.1-0.5µg/ml, Human, Rat, Mouse				

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution:	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Storage:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Relevant detection systems

Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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.