10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PP1R14C Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10151b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8TAE6
Other Accession	NP_112211.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22524
Calculated MW	17843
Antigen Region	126-155

Additional Information

Gene ID	81706
Other Names	Protein phosphatase 1 regulatory subunit 14C, Kinase-enhanced PP1 inhibitor, PKC-potentiated PP1 inhibitory protein, Serologically defined breast cancer antigen NY-BR-81, PPP1R14C, KEPI
Target/Specificity	This PP1R14C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 126-155 amino acids from the C-terminal region of human PP1R14C.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PP1R14C Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPP1R14C
Synonyms	KEPI

Function	Inhibitor of the PP1 regulatory subunit PPP1CA.
Cellular Location	Cytoplasm. Membrane; Peripheral membrane protein
Tissue Location	Detected in breast cancer.

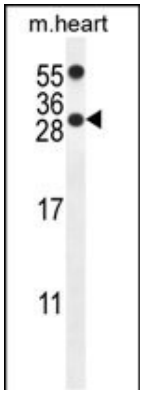
Background

The degree of protein phosphorylation is regulated by a balance of protein kinase and phosphatase activities. Protein phosphatase-1 (PP1; see MIM 176875) is a signal-transducing phosphatase that influences neuronal activity, protein synthesis, metabolism, muscle contraction, and cell division. PPP1R14C is an inhibitor of PP1 (Liu et al., 2002 [PubMed 11812771]).[supplied by OMIM].

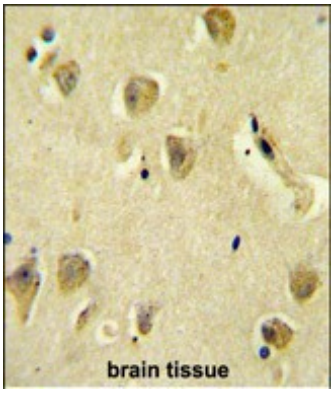
References

Daskalow, K., et al. Anticancer Res. 30(5):1573-1578(2010)
Scholz, S.W., et al. Ann. Neurol. 65(5):610-614(2009)
Burgner, D., et al. PLoS Genet. 5 (1), E1000319 (2009) :
Mungall, A.J., et al. Nature 425(6960):805-811(2003)
Liu, Q.R., et al. J. Biol. Chem. 277(15):13312-13320(2002)

Images



PP1R14C Antibody (C-term) (Cat. #AP10151b) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the PP1R14C antibody detected the PP1R14C protein (arrow).



PP1R14C Antibody (C-term) (Cat. #AP10151b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PP1R14C Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- Retromer in Osteoblasts Interacts With Protein Phosphatase 1 Regulator Subunit 14C, Terminates Parathyroid Hormone\'s Signaling, and Promotes Its Catabolic Response.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.