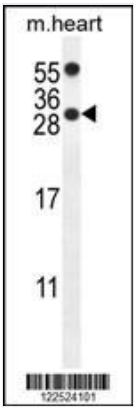
PP1R14C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PP1R14C, Polyclonal Antibody
Full Product Name	PP1R14C, CT (PPP1R14C, KEPI, Protein phosphatase 1 regulatory subunit 14C, Kinase-enhanced PP1 inhibitor, PKC-potentiated PP1 inhibitory protein, Serologically defined breast cancer antigen NY-BR-81) (Azide free) (HRP)
Product Gene Name	anti-PP1R14C antibody
Product Synonym Gene Name	PPP1R14C
Product Synonym Names	PPP1R14C; KEPI; Protein phosphatase 1 regulatory subunit 14C; Kinase-enhanced PP1 inhibitor; PKC-potentiated PP1 inhibitory protein; Serologically defined breast cancer antigen NY-BR-81
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PP1R14C. Species crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	17,843 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (150464188..150571528). Location: 6q24.3-q25.3
OMIM	613242
3D Structure	ModBase 3D Structure for Q8TAE6
Immunogen	PP1R14C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 133-163 amino acids from the C-terminal region of human PP1R14C.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-PP1R14C antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PP1R14C antibody	Immunohistochemistry (IHC), Western Blot (WB), ELISA (EIA)
Application Notes for anti-PP1R14C antibody	IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-PP1R14C antibody	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).

Product References and Citations for anti-PP1R14C antibody	1. Daskalow, K., et al. Anticancer Res. 30(5):1573-1578(2010). 2. Scholz, S.W., et al. Ann. Neurol. 65(5):610-614(2009). 3. Burgner, D., et al. PLoS Genet. 5 (1), E1000319 (2009). 4. Mungall, A.J., et al. Nature 425(6960):805-811(2003). 5. Liu, Q.R., et al. J. Biol. Chem. 277(15):13312-13320(2002).
Other Notes	Small volumes of anti-PP1R14C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PP1R14C purchase	MBS6336075 is an antibody targeting PP1R14C. Also known as PP1R14C, CT (PPP1R14C, KEPI, Protein phosphatase 1 regulatory subunit 14C, Kinase-enhanced PP1 inhibitor, PKC-potentiated PP1 inhibitory protein, Serologically defined breast cancer antigen NY-BR-81) (Azide free) (HRP). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-PP1R14C antibody
PP1R14C Antibody (C-term) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the PP1R14C antibody detected the PP1R14C protein (arrow).



Immunohistochemistry (IHC) of anti-PP1R14C antibody
PP1R14C Antibody (C-term) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PP1R14C. It may not necessarily be applicable to this product.

NCBI GI #	19311006
NCBI GeneID	81706
NCBI Accession #	NP_112211.1
UniProt Primary Accession #	Q8TAE6
UniProt Secondary Accession #	Q5VY83; Q96BB1; Q9H277
UniProt Related Accession #	Q8TAE6
GenBank Nucleotide #	NM_030949.2
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 14C
NCBI Official Synonym Full Names	protein phosphatase 1, regulatory (inhibitor) subunit 14C
NCBI Official Symbol	PPP1R14C
NCBI Official Synonym Symbols	KEPI; NY-BR-81; CPI17-like
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 14C
UniProt Synonym Protein Names	Kinase-enhanced PP1 inhibitor; PKC-potentiated PP1 inhibitory protein; Serologically defined breast cancer antigen NY-BR-81
UniProt Gene Name	PPP1R14C
UniProt Synonym Gene Names	KEPI

UniProt Entry Name	PP14C_HUMAN
NCBI Protein Information	protein phosphatase 1 regulatory subunit 14C; kinase-enhanced PP1 inhibitor; kinase C-enhanced PP1 inhibitor; PKC-potentiated PP1 inhibitory protein; serologically defined breast cancer antigen NY-BR-81
NCBI Summary for PP1R14C	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, Feb 2010]
UniProt Comments for PP1R14C	KEPI: Inhibitor of PPP1CA. Has over 600-fold higher inhibitory activity when phosphorylated, creating a molecular switch for regulating the phosphorylation status of PPP1CA substrates and smooth muscle contraction. Belongs to the PP1 inhibitor family. Protein type: Inhibitor; Protein phosphatase, regulatory subunit Chromosomal Location of Human Ortholog: 6q24.3-q25.3 Cellular Component: membrane; cytoplasm Molecular Function: type 1 serine/threonine specific protein phosphatase inhibitor activity Biological Process: regulation of phosphorylation; negative regulation of catalytic activity
Research Articles on PP1R14C	**1.** analysis of antibodies generated against the protein phosphatase 1 inhibitor KEPI and characterization of the epitope
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