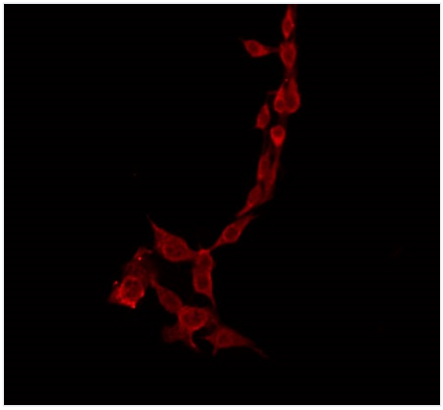
PPP1R14C Antibody – Rabbit Polyclonal

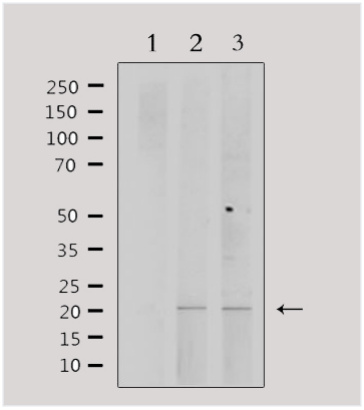
PRODUCT OVERVIEW

Product Name	PPP1R14C, Polyclonal Antibody
Full Product Name	PPP1R14C Antibody
Product Gene Name	anti-PPP1R14C antibody
Product Synonym Names	CPI17 like; KEPI; Kinase enhanced PP1 inhibitor; NY BR 81; PKC potentiated PP1 inhibitory protein; Protein phosphatase 1 regulatory subunit 14C; Serologically defined breast cancer antigen NY BR 81
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	PPP1R14C antibody detects endogenous levels of total PPP1R14C
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	PPP1R14C peptide (MBS9623539) is used for blocking the activity of PPP1R14C antibody (MBS9604822)
Molecular Weight	Observed: 20 kD Predicted: 18 kDa
3D Structure	ModBase 3D Structure for Q8TAE6
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide
Tissue Specificity	Detected in breast cancer.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PPP1R14C antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-PPP1R14C antibody	WB: 1:500-1:1000 IF/ICC: 1:100-1:500
Related Product Information for anti-PPP1R14C antibody	Function: Inhibitor of the PP1 regulatory subunit PPP1CA. Post-translational Modifications: 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 (By similarity). The main inhibitory site appears to be Thr-73. Similarity: Belongs to the PP1 inhibitor family.

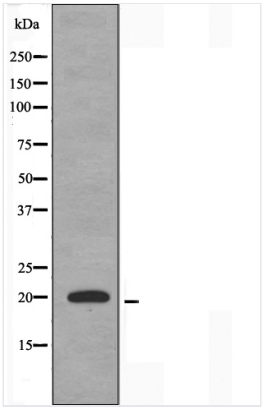
Other Notes	Small volumes of anti-PPP1R14C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PPP1R14C purchase	MBS9604822 is an antibody targeting PPP1R14C. Also known as PPP1R14C Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunofluorescence (IF) of anti-PPP1R14C antibody
MBS9604822 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Western Blot (WB) of anti-PPP1R14C antibody
Western blot analysis of extracts from various samples, using PPP1R14C Antibody. Lane 1: 293 treated with blocking peptide; Lane 2: 293; Lane 3: mouse brain;



Western Blot (WB) of anti-PPP1R14C antibody
Western blot analysis of extracts from Jurkat cells using PP14C antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP1R14C. 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
Protein Family	Protein phosphatase 1 regulatory
UniProt Gene Name	PPP1R14C
UniProt Synonym Gene Names	KEPI
NCBI Protein Information	protein phosphatase 1 regulatory subunit 14C
NCBI Summary for PPP1R14C	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 PPP1R14C	Inhibitor of the PP1 regulatory subunit PPP1CA.
Research Articles on PPP1R14C	**1.** analysis of antibodies generated against the protein phosphatase 1 inhibitor KEPI and characterization of the epitope
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