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Datasheet for 600-401-A63

TEP1 Antibody

Overview

Description:	Anti-Telomerase Associated Protein 1 (TEP1) (RABBIT) Antibody - 600-401-A63
Item No.:	600-401-A63
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Telomerase is an RNA-dependent DNA polymerase that uses an RNA component to add telomeric repeat sequences at the ends of chromosomes. Besides the RNA component which serves as the template that specifies the telomeric repeat, the telomerase complex contains a reverse transcriptase protein (TRT) and various accessory proteins including the telomerase-associated protein 1 (TP1). Telomerase activity is low in most somatic cells, causing the gradual shortening of telomeres which can ultimately lead to telomere fusion and cell death. High levels of telomerase activity are widely seen in cancerous cells and while recent experiments have suggested that telomerase may be a viable target in cancer therapy, expression levels of TP1 do not correlate with malignancy. At least two isoforms of TP1 are known to exist.
Synonyms:	p240 antibody, p80 telomerase homolog antibody, Telomerase associated protein 1 antibody, Telomerase protein component 1 antibody, TLP1 antibody, TP1 antibody, TROVE domain family, member 1 antibody, TROVE1 antibody, VAULT2 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TEP1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the amino terminus of human telomerase associated protein 1 (TEP1).
Purity/Specificity:	This affinity purified antibody is directed against human TEP1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest that this antibody would react with TEP1 from human, mouse and rat sources.
Relevant Links:	• UniProtKB - Q99973 • NCBI - 21536371 • GeneID - 7011

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA, immunofluorescence, immunohistochemistry, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~240 kDa in size corresponding to TEP1 by western blotting in the appropriate cell lysate or extract. Human kidney tissue lysate can be used as positive control.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 -2 µg/ml

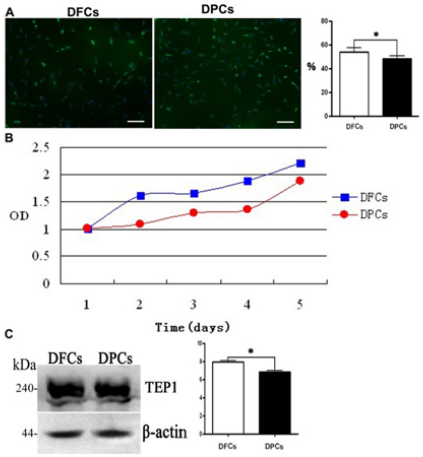
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

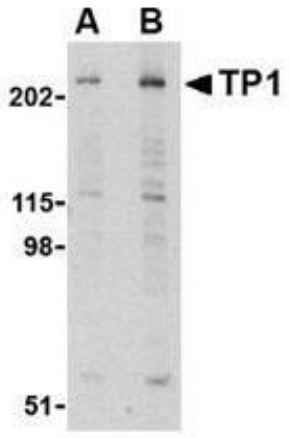
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Proliferation potential of DFCs and DPCs.
Both cells show high proliferation potential; however, DFCs show a higher potential than DPCs. (A) BrdU labeling, (B) growth curve and (C) TEP1 evaluation via immunofluorescent assay, CCK-8 assay and western blotting. Scale bars = 100 µm in (A). Fig 3. PMID: 23620822



Western Blot
Western blot using Rockland's Affinity Purified anti-TP1 antibody shows detection of a predominant band at ~240 kDa corresponding to TEP1 (arrowhead) in human kidney tissue lysate. The predicted MW of TEP1 is 290 kDa. TEP1 was detected using 1 ug/ml (lane A) and 2 ug/ml (lane B) concentrations of primary antibody.

References

- Guo, L et al. Comparison of odontogenic differentiation of human dental follicle cells and human dental papilla cells. *PloS One* (2013)

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