Datasheet for ABIN7165001 anti-POT1 antibody (AA 250-432) (HRP)

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Quantity:	100 µg
Target:	POT1
Binding Specificity:	AA 250-432
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POT1 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Protection of telomeres protein 1 protein (250-432AA)
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	POT1
Alternative Name:	POT1 (POT1 Products)
Background:	Background: Component of the telomerase ribonucleoprotein (RNP) complex that is essential
	for the replication of chromosome termini. Is a component of the double-stranded telomeric

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DNA-binding TRF1 complex which is involved in the regulation of telomere length by cis-
inhibition of telomerase. Also acts as a single-stranded telomeric DNA-binding protein and thus
may act as a downstream effector of the TRF1 complex and may transduce information about
telomere maintenance and/or length to the telomere terminus. Component of the shelterin
complex (telosome) that is involved in the regulation of telomere length and protection.
Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and
protects chromosome ends, without its protective activity, telomeres are no longer hidden from
the DNA damage surveillance and chromosome ends are inappropriately processed by DNA
repair pathways. Binds to two or more telomeric single-stranded 5\'-TTAGGG-3\' repeats (G-
strand) and with high specificity to a minimal telomeric single-stranded 5\'-TAGGGTTAG-3\'
sequence. Binds telomeric single-stranded sequences internally or at proximity of a 3\'-end. Its
activity is TERT dependent but it does not increase TERT activity by itself. In contrast, the ACD-
POT1 heterodimer enhances telomere elongation by increasing telomerase processivity.
Aliases: DKFZP586D211 antibody, hPot 1 antibody, hPot1 antibody, POT 1 antibody, POT1
antibody, POT1 like telomere end-binding protein antibody, POT1 protection of telomeres 1
homolog antibody, POT1-like telomere end-binding protein antibody, POTE1_HUMAN antibody,
Protection of telomeres 1 antibody, Protection of telomeres 1 homolog (S. pombe) antibody,
Protection of telomeres protein 1 antibody

UniProt:	Q9NUX5
Pathways:	Cell Division Cycle, Telomere Maintenance

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300
	Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling

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Storage Comment:

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

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