Datasheet for ABIN7600116

anti-POT1 antibody (AA 15-638)

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Overview

Quantity:	100 µg
Target:	POT1
Binding Specificity:	AA 15-638
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-POT1 Antibody Picoband®
Immunogen:	E.coli-derived rat POT1 recombinant protein (Position: N15-V638).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-POT1 Antibody Picoband® (ABIN7600116). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	POT1
Alternative Name:	Pot1 (POT1 Products)
Background:	Synonyms: Nucleoprotein TPR, Megator, NPC-associated intranuclear protein, Translocated promoter region protein, TPR Tissue Specificity: Expressed in esophagus, ovary, liver, skin, smooth muscles, cerebrum and fetal cerebellum (at protein level). Highest in testis, lung, thymus, spleen and brain, lower levels in heart, liver and kidney. Background: Protection of telomeres protein 1 is a protein that in humans is encoded by the POT1 gene. This gene is a member of the telombin family and encodes a nuclear protein involved in telomere maintenance. Specifically, this protein functions as a member of a multi-protein complex that binds to the TTAGGG repeats of telomeres, regulating telomere length and protecting chromosome ends from illegitimate recombination, catastrophic chromosome instability, and abnormal chromosome segregation. Increased transcriptional expression of this gene is associated with stomach carcinogenesis and its progression. Alternatively spliced transcript variants have been described.
Molecular Weight:	71 kDa
Gene ID:	500054
UniProt:	A0A0G231
Pathways:	Cell Division Cycle, Telomere Maintenance

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, 1. "Entrez Gene: POT1 POT1 protection of telomeres 1 homolog (S. pombe)". 2. Baumann P, Cech TR (May 2001). "Pot1, the putative telomere end-binding protein in fission yeast and humans". Science 292 (5519): 1171-5. 3. Baumann P, Podell E, Cech TR (Oct 2002). "Human Pot1 (Protection of Telomeres) Protein: Cytolocalization, Gene Structure, and Alternative Splicing". Mol Cell Biol 22 (22): 8079-87.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.