

Rabbit POT1 Polyclonal Antibody | anti-Pot1 antibody

Anti-POT1 Antibody

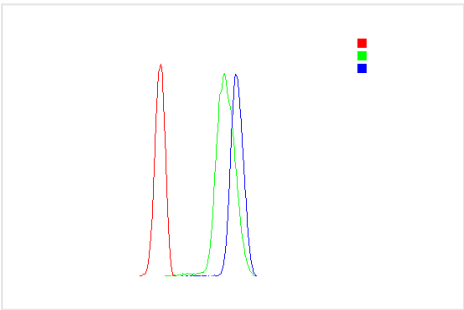
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125569	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

POT1; Polyclonal Antibody; Anti-POT1 Antibody; Protection of telomeres 1; Similar to POT1-like telomere end-binding protein; Pot1; LOC500054;rCG_28046; protection of telomeres 1; anti-Pot1 antibody

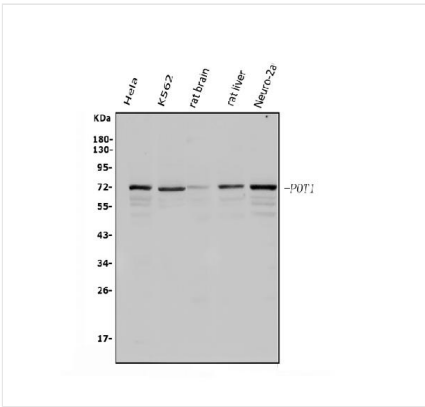
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for POT1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Pot1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived rat POT1 recombinant protein (Position: N15-V638).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U937 cells using anti-POT1 antibody (AAA125569).Overlay histogram showing U937 cells stained with AAA125569 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-POT1 Antibody (AAA125569, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of POT1 using anti-POT1 antibody (AAA125569).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HELA whole cell lysatesLane 2: human K562 whole cell lysatesLane 3: rat brain tissue lysatesLane 4: rat liver tissue lysatesLane 5: mouse Neuro-2a whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-POT1 antigen affinity purified polyclonal antibody (Catalog # AAA125569) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for POT1 at approximately 71KD. The expected band size for POT1 is at 71KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Pot1 antibody	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.
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	500054
UniProt Accession #	A0A0G2JX31

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/pot1-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125569>