

Mouse Protection of telomeres protein 1 (POT1)
ELISA Kit

Catalog No: #EK8384

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Package Size: #EK8384-1 48T #EK8384-2 96T

Description

Product Name	Mouse Protection of telomeres protein 1 (POT1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DKFZp586D211; HPOT1; OTTHUMP00000211676 POT1-like telomere end-binding protein protection of telomeres 1
Accession No.	Q91WC1
Uniprot	Q91WC1
GeneID	101185;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.312-20 ng/mL
Sensitivity:0.118 ng/mL
Sample Type:Serum, Plasma, Other biological fluids
Sample Volume: 1-200 μL
Assay Time:1-4.5h
Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate POT1 in samples. An antibody specific for POT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POT1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of POT1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:POT1 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.Human POT1 encodes a 71-kD protein whose N-terminal region shares 26% identity with the N terminus of S. pombe Pot1. POT1 is a housekeeping gene required to ensure the integrity of chromosome ends in all cells.

Note: This product is for in vitro research use only