



Anti-POT1 (aa 1-95) polyclonal antibody (DPAB-DC1259)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	POT1 (NP_056265, 1 a.a. ~ 95 a.a) partial recombinant protein with GST tag. The sequence is MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKLTCL LFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQG
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	POT1 protection of telomeres 1 [Homo sapiens (human)]
Official Symbol	POT1
Synonyms	POT1; protection of telomeres 1; CMM10; HPOT1; protection of telomeres protein 1; protection of telomeres 1 homolog; POT1-like telomere end-binding protein;
Entrez Gene ID	25913
Protein Refseq	NP_001036059
UniProt ID	A8MTK3
Chromosome Location	7q31.33
Pathway	Cell Cycle; Cellular responses to stress; DNA Damage/Telomere Stress Induced Senescence; Meiotic synapsis.
Function	DEAD/H-box RNA helicase binding; protein binding; single-stranded telomeric DNA binding; telomerase inhibitor activity
