

Product datasheet for TP316275L

POT1 (NM_015450) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human POT1 protection of telomeres 1 homolog (S. pombe) (POT1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216275 representing NM_015450 Red=Cloning site Green=Tags(s)

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKKFFKPPYLSKGTDYCSWTVTDQTNVTKLTCLLFSGNYEALP
IIYKNGDIVRFHRLKIQVYKQGITSSGFASLTFEGLGAPIIPRTSSKYFNFTTEDHKMVEALRWAA
STHMSPSWTLLKCDVQPMQYFDLTCQLLGAEDVDGASFLKVDGTRTPFPSPWRVLIQDLVLEGDLSHI
HRLQNLTIIDILVYDNHVVHVARSLKVGSLRIYSLHTKLQSMNSENQTMLSLEFHLHGGSYGRGIRVLP
SNSDVDQLKKDLESANLTANQHSVICQSEPDDSPSSGSVSLYEVEERCQQLSATILTDHQYLERTPLCA
ILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQVEPHEGDLDIIFQDGATKTPVVKLQNTSLYD
SKIWTTKNQKGRKVAVHFVNNGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDLSA
PFLIQGTIHHYGCKQCSSLRSIQNLNSLVDKTSWIPSSVAEALGIVPLQYVFMFTFLDDGTGVLEAYLM
DSDKFFQIPASEVLMDDDLQKSVDMMIMDMFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVA
EDVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	71.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	EMSA assay (PMID: 25934589) Binding assay (competitor) (PMID: 27228173) Pull-down assay (PMID: 27228173)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_056265](#)

Locus ID: 25913

UniProt ID: [Q9NUX5](#), [A0A024R739](#)

RefSeq Size: 2631

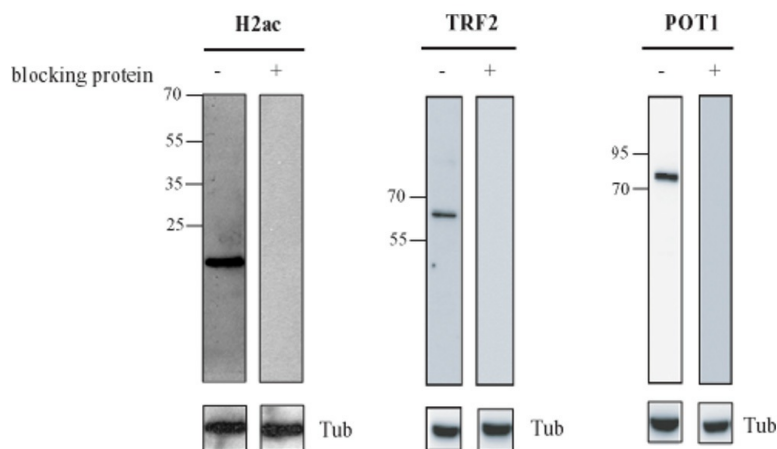
Cytogenetics: 7q31.33

RefSeq ORF: 1902

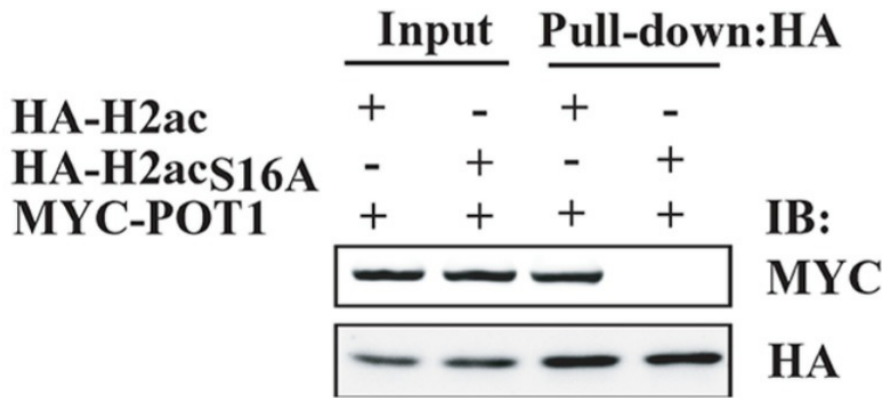
Synonyms: CMM10; GLM9; HPOT1

Summary: 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. [provided by RefSeq, Jul 2008]

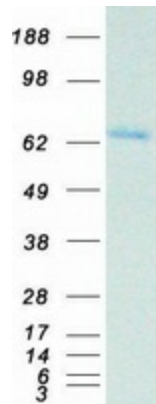
Product images:



Western blotting using anti-H2ac, anti-TRF2, and anti-POT1 with or without H2ac, TRF2, and POT1 proteins (OriGene [TP316275]) as competitors. Tubulin served internal controls. Figure cited from PLoS ONE, PMID: 27228173



Purified recombinant HA-H2ac interacted directly with purified recombinant MYC-POT1 (OriGene [TP316275]), as analyzed by a pulldown assay and Western blot. HA-H2acS16A served as a negative control. Figure cited from PLoS ONE, PMID: 27228173



Coomassie blue staining of purified POT1 protein (Cat# [TP316275]). The protein was produced from HEK293T cells transfected with POT1 cDNA clone (Cat# [RC216275]) using MegaTran 2.0 (Cat# [TT210002]).