

产品名称: POT1 Rabbit Polyclonal Antibody
产品货号: AP Rab16380



产品概述 (Summary)

产品名称 (Production Name)	POT1 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC
种属反应性 (Reactivity)	Human,Monkey

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	POT1
别名 (Alternative Names)	POT1; Protection of telomeres protein 1; hPot1; POT1-like telomere end-binding protein
基因 ID (Gene ID)	25913.0
蛋白 ID (SwissProt ID)	Q9NUX5.The antiserum was produced against synthesized peptide derived from human POT1. AA range:247-296

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300
蛋白分子量 (Molecular Weight)	70kDa

产品名称: POT1 Rabbit Polyclonal Antibody
产品货号: AP Rab16380



研究背景 (Background)

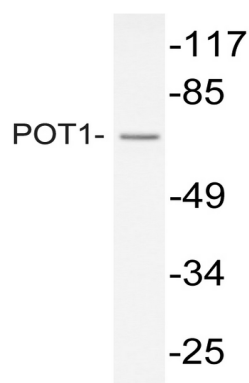
protection of telomeres 1(POT1) Homo sapiens This gene is a member of the telombin family and encodes a nuclear protein involved in telomere maintenance. Specifically, this protein functions as a member of a multi-protein complex that binds to the TTAGGG repeats of telomeres, regulating telomere length 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], alternative products: A number of isoforms are produced, function: Component of the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of chromosome termini. Is a component of the double-stranded telomeric DNA-binding TRF1 complex which is involved in the regulation of telomere length by cis-inhibition of telomerase. Also acts as a single-stranded telomeric DNA-binding protein and thus may act as a downstream effector of the TRF1 complex and may transduce information about telomere maintenance and/or length to the telomere terminus. Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends; without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Binds to two or more telomeric single-stranded 5'-TTAGGG-3' repeats (G-strand) and with high specificity to a minimal telomeric single-stranded 5'-TAGGGTTAG-3' sequence. Binds telomeric single-stranded sequences internally or at proximity of a 3'-end. Its activity is TERT dependent but it does not increase TERT activity., similarity: Belongs to the telombin family., subcellular location: Colocalizes with telomeric DNA., subunit: Homodimer or homooligomer. Component of the shelterin complex (telosome) composed of TERF1, TERF2, TIN2, TERF2IP, ACD and POT1. Binds single-stranded telomeric DNA as a monomer (By similarity). Component of the telomerase holoenzyme complex at least composed of TERT, DKC1, WDR79/TCAB1, NOP10, NHP2, GAR1, TEP1, EST1A, POT1 and a telomerase RNA template component (TERC). Found in a complex with TERF1, TIN2 and TNKS1. Interacts with TNKS1. Forms heterodimers with ACD., tissue specificity: Ubiquitous.,

研究领域 (Research Area)

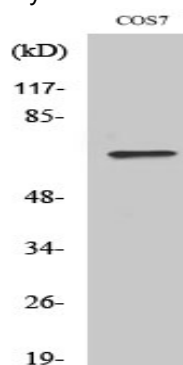
Epigenetics and Nuclear Signaling; DNA / RNA; DNA Synthesis; Cancer; Tumor biomarkers

图片 (Image Data)

产品名称: POT1 Rabbit Polyclonal Antibody
产品货号: AP Rab16380



Western blot analysis of lysate from COS7 cells, using POT1 antibody.



Western Blot analysis of various cells using POT1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA) .

注意事项 (Note)

For research use only .