Datasheet for ABIN7317319

TRF1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	TRF1 (TERF1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRF1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TERF1/TRF1 Protein (His Tag)
Sequence:	Met 1-Asp 419
Characteristics:	A DNA sequence encoding the human TERF1 isoform 2 (NP_003209.2) (Met 1-Asp 419) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	TRF1 (TERF1)
Alternative Name:	TERF1/TRF1 (TERF1 Products)
Background:	Background: Telomeric repeat binding factor 1 (TRF1), also known as TERF1, the shelterin complex, which modulates the telomere structures. TRF1 protein structure contains a C-terminal Myb motif, a dimerization domain near its N-terminus and an acidic N-terminus.

Target Details

	Pin2/TRF1 was originally identified as a protein bound to telomeric DNA (TRF1) and as a protein involved in mitotic regulation (Pin2). Pin2/TRF1 negatively regulates telomere length and importantly, its function is tightly regulated during the cell cycle, acting as an important regulator of mitosis. TRF1 can be bound and modulated by two nucleolar GTP-binding proteins, nucleostemin (NS) and guanine nucleotide binding protein-like 3-like (GNL3L), which exhibit apparently opposite effects on the protein degradation of TRF1. TRF1/TERF1 may has association with cancer. TRF1 may play a significant role in cell differentiation in non-small cell lung cancer (NSCLC). The expression level of TRF1 protein is significantly reduced in kidney cancer and the level is negatively correlated with malignant degree of the cancer. TRF1 expression in malignant gliomas cells, may play a role in the malignant progression of astroglial brain tumors. Synonym: FLJ41416,hTRF1-AS,PIN2,t-TRF1,TRBF1,TRF,TRF1
Molecular Weight:	50.5 kDa
NCBI Accession:	NP_003209
Pathways:	Cell Division Cycle, Telomere Maintenance, Hormone Transport, Chromatin Binding, Regulation of Cell Size, Positive Regulation of Endopeptidase Activity

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.