G-Biosciences Image not found or type unknown

Immunotag™ TRF1 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT4733
Product Description	Immunotag™ TRF1 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	TRF1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human Telomeric Repeat Binding Factor 1. AA range:185-234
Specificity	TRF1 Polyclonal Antibody detects endogenous levels of TRF1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	TERF1
Accession No.	P54274 P70371
Alternate Names	TERF1; PIN2; TRBF1; TRF; TRF1; Telomeric repeat-binding factor 1; NIMA-interacting protein 2; TTAGGG repeat-binding factor 1; Telomeric protein Pin2/TRF1

Antibody Specification

Description	telomeric repeat binding factor 1(TERF1) Homo sapiens This gene encodes a telomere specific protein which is a component of the telomere nucleoprotein complex. This protein is present at telomeres throughout the cell cycle and functions as an inhibitor of telomerase, acting in cis to limit the elongation of individual chromosome ends. The protein structure contains a C-terminal Myb motif, a dimerization domain near its N-terminus and an acidic N-terminus. Two transcripts of this gene are alternatively spliced products. [provided by RefSeq, Jul 2008],
Protein Expression	Cervix carcinoma,Epithelium,Liver,
Subcellular Localization	chromosome, telomeric region,nuclear telomere cap complex,nuclear chromosome, telomeric region,nucleus,nucleoplasm,nucleolus,cytoplasm,spindle,telosome,
Protein Function	domain:The acidic N-terminal domain binds to the ankyrin repeats of TNKS1 and TNKS2. The C-terminal domain binds microtubules.,function:Binds the telomeric double-stranded TTAGGG repeat and negatively regulates telomere length. Involved in the regulation of the mitotic spindle. 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.,induction:Pin2 expression is tightly regulated during the cell cycle; levels are low in G1 and S phase and increase during G2 phase and mitosis.,PTM:ADP-ribosylation by TNKS1 or TNKS2 diminishes its ability to bind to telomeric DNA.,PTM:Phosphorylated preferentially on Ser-219 in an ATM-dependent manner in response to ionizing DNA damage.,similarity:Contains 1 HTH myb-type DNA-binding domain.,subcellular location:Colocalizes with telomeric DNA in interphase and metaphase cells and is located at chromosome ends during metaphase. Associates with the mitotic spindle.,subunit:Homodimer; can contain both isoforms. Found in a complex with POT1; TINF2 and TNKS1. Interacts with ATM, TINF2, TNKS1, TNKS2, PINX1, NEK2 and MAPRE1. Component of the shelterin complex (telosome) composed of TERF1, TERF2, TINF2, TERF2IP ACD and POT1.,tissue specificity:Highly expressed and ubiquitous. Isoform Pin2 predominates.,
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