Rabbit anti-Human TRF1 Polyclonal Antibody | anti-TRF1 antibody

TRF1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322642	**Rabbit**	**Human**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

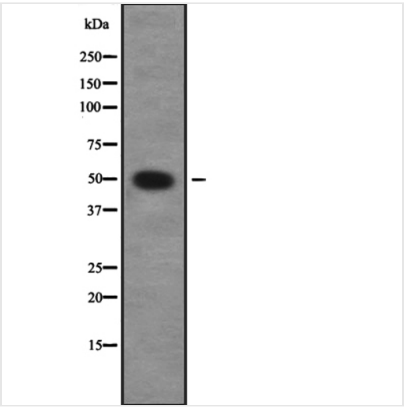
PRODUCT SYNONYMS

TRF1; Polyclonal Antibody; TRF1 Antibody; hTRF1 AS; NIMA interacting protein 2; NIMA-interacting protein 2; PIN 2; PIN2; t TRF1; Telomeric protein Pin2; Telomeric protein Pin2/TRF1; Telomeric repeat binding factor (NIMA interacting) 1; Telomeric repeat binding factor 1; Telomeric repeat binding protein 1; Telomeric repeat-binding factor 1; TERF 1; Terf1; TERF1_HUMAN; TRBF 1; TRBF1; TRF 1; TRF; TTAGGG repeat binding factor 1; TTAGGG repeat-binding factor 1; anti-TRF1 antibody

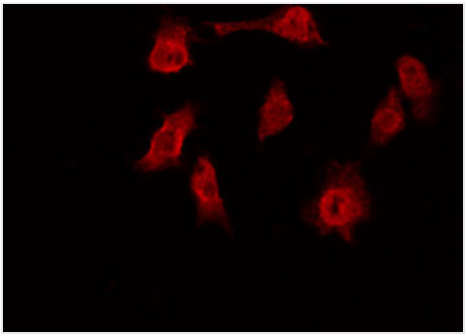
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	TRF1 antibody detects endogenous levels of total TRF1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	419
Applicable Applications for anti-TRF1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TRF1
Subcellular Location	Nucleus. Cytoplasm > Cytoskeleton > Spindle. Chromosome > Telomere. Colocalizes with telomeric DNA in interphase and metaphase cells and is located at chromosome ends during metaphase. Associates with the mitotic spindle.
Tissue Specificity	Highly expressed and ubiquitous. Isoform Pin2 predominates.
Predicted Cross Reactivity	**Horse, Sheep**
Similarity	Horse (83%), Sheep (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of TRF1 using 293 whole cell lysates



IF (Immunofluorescence)
AAA322642 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TRF1 antibody	Function: Binds the telomeric double-stranded 5'-TTAGGG-3' 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 5'-TTAGGG-3' 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. Subunit Structure: 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. Interacts with RLIM (via N-terminus). Interacts with FBXO4. Interaction with TINF2 protects against interaction with FBXO4 and subsequent polyubiquitination and proteasomal degradation. Interacts with GNL3L; this interaction promotes homodimerization. Interacts with TIN2. Interacts with RTEL1. Interactions with GNL3L and TIN2 are mutually exclusive. Interacts with CCDC79/TERB1 (By similarity). Post-translational Modifications: Phosphorylated preferentially on Ser-219 in an ATM-dependent manner in response to ionizing DNA damage. ADP-ribosylation by TNKS1 or TNKS2 diminishes its ability to bind to telomeric DNA. Ubiquitinated by RLIM/RNF12, leading to its degradation by the proteasome. Ubiquitinated by a SCF (SKP1-CUL1-F-box protein) ubiquitin-protein ligase complex, leading to its degradation by the proteasome. Similarity: The acidic N-terminal domain binds to the ankyrin repeats of TNKS1 and TNKS2. The C-terminal domain binds microtubules.The TRFH dimerization region mediates the interaction with TINF2.The HTH domain is an independent structural unit and mediates binding to telomeric DNA.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189409140
NCBI GeneID	7013
NCBI Accession #	NP_003209.2
NCBI GenBank Nucleotide #	NM_003218.3
UniProt Accession #	P54274; Q15553; Q8NHT6; Q93029; A7XP29
Molecular Weight	Observed: 50 kDa Predicted: 51 kDa
NCBI Official Full Name	telomeric repeat-binding factor 1 isoform 2
NCBI Official Synonym Full Names	telomeric repeat binding factor 1
NCBI Official Symbol	TERF1

NCBI Official Synonym Symbols	TRF; PIN2; TRF1; TRBF1; t-TRF1; hTRF1-AS
NCBI Protein Information	telomeric repeat-binding factor 1
UniProt Protein Name	Telomeric repeat-binding factor 1
UniProt Gene Name	**TERF1**
UniProt Synonym Gene Names	PIN2; TRBF1; TRF; TRF1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/trf1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322642