

Human, Mouse Telomeric Repeat Binding Factor 1 ELISA Kit | TERF1 elisa kit

Telomeric Repeat Binding Factor 1 TFact DNA-Binding ELISA Kit

CATALOG #
AAA316033

REACTIVITY
Human, Mouse

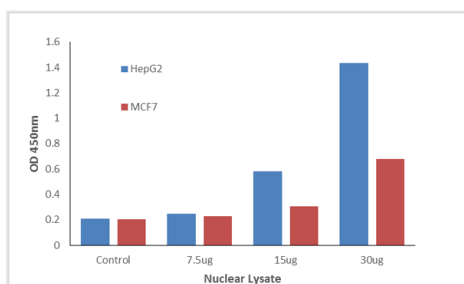
PRODUCT SYNONYMS

Telomeric Repeat Binding Factor 1; Telomeric Repeat Binding Factor 1 TFact DNA-Binding ELISA Kit; NIMA-interacting protein 2; PIN2; TERF1; TRF; TTAGGG repeat binding factor 1; Telomeric protein Pin2/TRF1; Telomeric repeat binding factor 1; TERF1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse
Specificity	The TFact Telomeric Repeat Binding Factor 1 DNA-Binding ELISA detects endogenous levels of total Telomeric Repeat Binding Factor 1 protein.
Form/Format	12 x 8-Well Microstrips
Sequence Length	419
Samples	Cell lysate
Assay Type	DNA-Binding ELISA
Sensitivity	10-30 ug of total protein/well
Detection Method	Colorimetric 450 nm
Subtype	Phospho
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Application Data

The TFact Telomeric Repeat Binding Factor 1 DNA-Binding ELISA detects active Telomeric Repeat Binding Factor 1 in HepG2 and MCF7 Nuclear Extract. The HepG2 and MCF7 cells were grown 3 days in DMEM with 10% FBS and harvested for nuclear extract.

ADDITIONAL INFORMATION

Related Product Information for TERF1 elisa kit	Principle of the Assay: The TFact™ DNA-Binding ELISA Kit contains components necessary for detection of active transcription factors in eukaryotic nuclear or cell lysates. This particular immunoassay utilizes the qualitative technique of an indirect ELISA. Streptavidin is bound to the immunoassay plate and specific biotinylated double-stranded (dsDNA) oligonucleotides are then added to bind to the streptavidin via a high affinity biotin-streptavidin interaction. After subsequent blocking of extraneous binding sites in each well, the sample containing the target of interest can be added. Primary antibody is added to bind activated transcription factors bound to the dsDNA oligonucleotide, which has been immobilized via the plate-coated streptavidin. A HRP-conjugated secondary antibody specific for rabbit IgGs is added, which allows for specific binding to the Primary Antibody, and consequently colorimetric detection upon addition of the TMB substrate. For color development, TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added to each well. After addition of the substrate, a peroxidase catalyzed reaction will produce a blue TMB Diimine product that is proportional to the target concentration in the sample. Color development is quenched by addition of Stop Solution, or 2 N Sulfuric Acid, which turns the solution yellow. The absorbance can then be read by a spectrophotometer at 450 nm and subsequently allowing for determination of the target concentration in the sample. Currently, the most common methods to detect transcription factor binding to DNA elements and motifs are electrophoretic mobility shift assays (EMSAs), chromatin immunoprecipitation, western blotting, and expression of fused target and reporter genes. These methods are often time consuming, complicated, and make it difficult to achieve satisfactory results. Assay Biotech TFact™ DNA-Binding ELISA Kits can significantly reduce the necessary runtime to within one day and eliminate the need for harmful radioactive labeling while maintaining high sensitivity and signal-to-noise ratio. In the past, it was strenuous and inefficient to perform high-throughput screening for hundreds of different samples or transcription factors. Today, our revolutionary TFact™ DNA-Binding ELISA Kits can eliminate these challenges and help expedite the journey from research to publication or product.
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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	48,239 Da
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://stage.aaabiotech.com/terf1-human-mouse-elisa-kits/telomeric-repeat-binding-factor-1/316033>