

Human NRF1 ELISA Kit | NRF1 elisa kit

NRF1 TFact DNA-Binding ELISA Kit

CATALOG #
AAA315958

REACTIVITY
Human

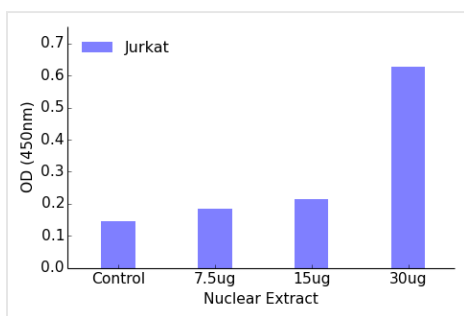
PRODUCT SYNONYMS

NRF1; NRF1 TFact DNA-Binding ELISA Kit; Nuclear respiratory factor 1; NRF-1; Alpha palindromic-binding protein; Alpha-pal; NRF1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Form/Format	12 x 8-Well Microstrips
Sequence Length	503
Samples	Nuclear and Cell Lysates
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Application Data

The TFact NRF1 DNA-Binding ELISA detects active NRF1 in Jurkat Nuclear Extract. The Jurkat cells were grown 3 days in RPMI 1640 with 10% FBS and harvested for nuclear extract.

ADDITIONAL INFORMATION

Related Product Information for NRF1 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 doublestranded (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 platecoated 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 #	93141039
NCBI GeneID	4899
NCBI Accession #	NP_001035199.1
NCBI GenBank Nucleotide #	NM_001040110.1
UniProt Accession #	Q16656; Q15305; Q96AN2; A8K4C6; B4DDV6
Molecular Weight	55,674 Da
NCBI Official Full Name	nuclear respiratory factor 1 isoform 1
NCBI Official Synonym Full Names	nuclear respiratory factor 1
NCBI Official Symbol	NRF1
NCBI Official Synonym Symbols	ALPHA-PAL
NCBI Protein Information	nuclear respiratory factor 1
UniProt Protein Name	Nuclear respiratory factor 1
UniProt Gene Name	NRF1
UniProt Synonym Gene Names	NRF-1; Alpha-pal

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.