

Human Thioredoxin-Interacting Protein (TXNIP) ELISA Kit | TXNIP elisa kit

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CATALOG #
AAA330336

REACTIVITY
Human

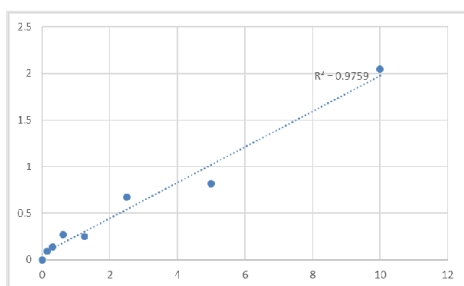
PRODUCT SYNONYMS

Thioredoxin-Interacting Protein (TXNIP); Human Thioredoxin-Interacting Protein (TXNIP) ELISA Kit; TXNIP; EST01027; HHCPA78; THIF; VDUP1; thioredoxin binding protein 2; upregulated by 1; 25-dihydroxyvitamin D-3; TXNIP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Thioredoxin-interacting protein (TXNIP) ELISA Kit has high sensitivity and excellent specificity for detection of Human TXNIP. No significant cross-reactivity or interference between Human TXNIP and analogues was observed.
Sequence Length	391
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Thioredoxin-interacting protein (TXNIP) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TXNIP elisa kit	Description: This Human Thioredoxin-interacting protein (TXNIP) ELISA Kit employs a two-site sandwich ELISA to quantitate TXNIP in samples. An antibody specific for TXNIP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TXNIP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TXNIP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TXNIP bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Exposure to vitamin D3 (1,25-dihydroxyvitamin D3) or phorbol ester induces the bipotent HL-60 cell promyelocytic leukemia cell line to differentiate into monocytes/macrophages, whereas retinoic acid and dimethylsulfoxide induce differentiation towards granulocytes. The differentiation is accompanied by regulation of MYC, FOS, FMS (CSF1R), and myeloblastin (PRTN3;). By differential screening of HL60 cell lines, Chen and DeLuca (1994) identified a cDNA encoding TXNIP, which they termed VDUP1. The deduced TXNIP protein has 391 amino acids. Ribonuclease protection analysis showed dramatically increased expression of TXNIP in response to vitamin D3 but not to phorbol ester. Chen and DeLuca (1994) concluded that TXNIP is not involved in the differentiation process.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	171184421
NCBI GeneID	10628
NCBI Accession #	NP_006463.3
NCBI GenBank Nucleotide #	NP_006463.3
UniProt Accession #	Q9H3M7
NCBI Official Full Name	thioredoxin-interacting protein isoform 1
NCBI Official Synonym Full Names	thioredoxin interacting protein
NCBI Official Symbol	TXNIP
NCBI Official Synonym Symbols	THIF; VDUP1; ARRDC6; HHCPA78; EST01027
NCBI Protein Information	thioredoxin-interacting protein
UniProt Protein Name	Thioredoxin-interacting protein
UniProt Gene Name	TXNIP
UniProt Synonym Gene Names	VDUP1
UniProt Entry Name	TXNIP_HUMAN

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.