

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

Human Thioredoxin-interacting Protein (TXNIP) Mini Samples ELISA Kit

CATALOG # AAA150404	REACTIVITY Human	APPLICATIONS ELISA
-------------------------------	----------------------------	------------------------------

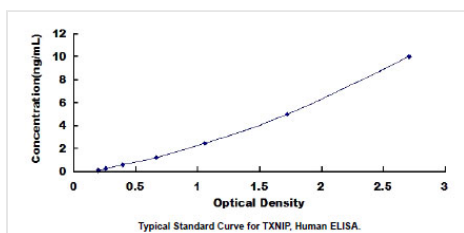
PRODUCT SYNONYMS

Thioredoxin-interacting Protein (TXNIP); Human Thioredoxin-interacting Protein (TXNIP) Mini Samples ELISA Kit; TBP2; HHCPA78; THIF; VDUP1; Thioredoxin Binding Protein 2 ; Vitamin D3-Upregulated Protein 1; Upregulated By 1; 25-Dihydroxyvitamin D-3; TXNIP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TXNIP. No significant cross-reactivity or interference between TXNIP and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.061ng/mL
Applicable Applications for TXNIP elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TXNIP were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TXNIP were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TXNIP elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TXNIP in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TXNIP. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TXNIP. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain TXNIP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of TXNIP in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for TXNIP elisa kit	Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	171184421
NCBI GeneID	10628
NCBI Accession #	NP_006463.3
NCBI GenBank Nucleotide #	NM_006472.4
UniProt Accession #	Q9H3M7; Q16226; Q6PML0; Q9BXG9; B4E3D3
Molecular Weight	43,661 Da
NCBI Official Full Name	thioredoxin-interacting protein
NCBI Official Synonym Full Names	thioredoxin interacting protein
NCBI Official Symbol	TXNIP
NCBI Official Synonym Symbols	THIF; VDUP1; HHCPA78; EST01027
NCBI Protein Information	thioredoxin-interacting protein; thioredoxin binding protein 2; thioredoxin-binding protein 2; vitamin D3 up-regulated protein 1; upregulated by 1,25-dihydroxyvitamin D-3
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.