Mouse Thioredoxin-interacting protein (TXNIP) ELISA Kit

Catalog No: #EK5964

Package Size: #EK5964-1 48T #EK5964-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Thioredoxin-interacting protein (TXNIP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	EST01027; HHCPA78; THIF; VDUP1; thioredoxin binding protein 2|upregulated by 1;25-dihydroxyvitamin D-3
Accession No.	Q8BG60
Uniprot	Q8BG60
GeneID	56338;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.117 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyTXNIP 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.Product Overview: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.

Note: This product is for in vitro research use only