



Rat Thioredoxin-interacting protein(TXNIP) ELISA kit

Product Code	CSB-EL025383RA
Abbreviation	TXNIP
Protein Biological Process 1	Cell Cycle
Target Name	thioredoxin interacting protein
Uniprot No.	Q5M7W1
Alias	EST01027, HHCPA78, THIF, VDUP1, thioredoxin binding protein 2 upregulated by 1,25-dihydroxyvitamin D-3
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Cell cycle
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cell Biology
Gene Names	Txnip
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat TXNIP ELISA Kit was designed for the quantitative measurement of Rat TXNIP protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 47 pg/mL-3000 pg/mL and the sensitivity is 11.75 pg/mL.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%



Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat TXNIP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	91
	Range %	86-95
1:2	Average %	102
	Range %	97-107
1:4	Average %	91
	Range %	85-97
1:8	Average %	97
	Range %	91-103

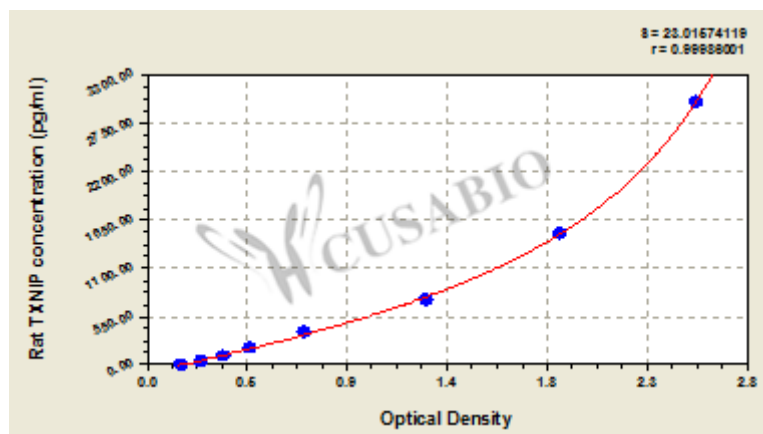
Recovery

The recovery of rat TXNIP spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	90	85-96
EDTA plasma (n=4)	92	87-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
3000	2.507	2.536	2.522	2.348
1500	1.964	1.834	1.899	1.725
750	1.278	1.304	1.291	1.117
375	0.735	0.730	0.733	0.559
187.5	0.482	0.492	0.487	0.313
94	0.364	0.372	0.368	0.194
47	0.267	0.261	0.264	0.090
0	0.173	0.175	0.174	?

**Msd**

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