

TXNIP Recombinant monoclonal antibody

Catalog Number: 87483-1-RR

Basic Information

Catalog Number:

87483-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG33838

GenBank Accession Number:

BC093702

GeneID (NCBI):

10628

UNIPROT ID:

Q9H3M7

Full Name:

thioredoxin interacting protein

Calculated MW:

391 aa, 44 kDa

Observed MW:

44-55 kDa

Purification Method:

Protein A purification

CloneNo.:

252846D1

Recommended Dilutions:

WB: 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HL-60 cells, K-562 cells, THP-1 cells, PC-12 cells, NIH/3T3 cells

Background Information

TXNIP, also known as VDUP-1 or TBP-2, belongs to alpha-arrestin protein family and is perhaps the only family member known to bind thioredoxin (TRX). TXNIP was induced by Vitamin D3, but not induced by another monocyte or macrophage differentiation inducer: phorbol 12-myristate 13-acetate (PMA). TXNIP bound catalytic active center of thioredoxin (TRX), which protected cells against oxidative stress. TXNIP was found to be a negative regulator of thioredoxin activity and inducer of the intracellular level of reactive oxygen species (ROS). TXNIP plays an important role in a wide variety of biological functions, such as the regulation of cell death, growth, differentiation, and energy metabolism.

Storage

Storage:

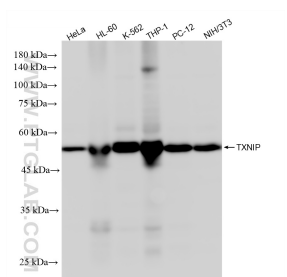
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

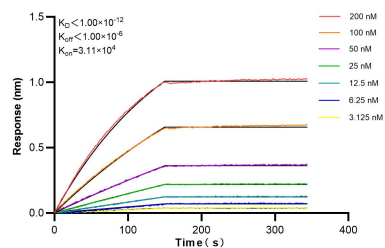
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87483-1-RR (TXNIP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87483-1-RR against Human TXNIP were performed. The affinity constant is below 1 pM.