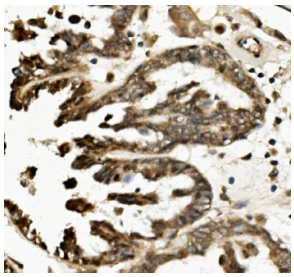
TXNIP Antibody (RQ6014)

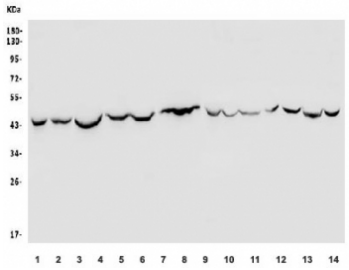
Catalog No.	Formulation	Size
RQ6014	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

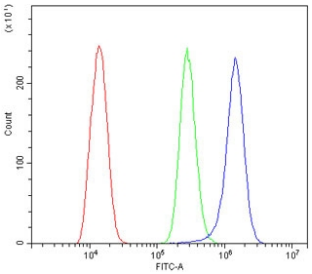
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9H3M7
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This TXNIP antibody is available for research use only.



IHC staining of FFPE human ovarian cancer with TXNIP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat brain, 2) rat kidney, 3) rat PC-13, 4) mouse brain, 5) mouse kidney, 6) mouse NIH 3T3, 7) mouse RAW264.7 and human 8) K562, 9) HeLa, 10) HEK293, 11) HL-60, 12) A549, 13) Caco-2 and 14) Raji lysate with TXNIP antibody. Predicted molecular weight ~46 kDa.



Flow cytometry testing of human ThP-1 cells with TXNIP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TXNIP antibody.

Description

Thioredoxin-interacting protein is a protein that in humans is encoded by the TXNIP gene. It is mapped to 1q21.1. This gene encodes a thioredoxin-binding protein that is a member of the alpha arrestin protein family. Thioredoxin is a thiol-oxidoreductase that is a major regulator of cellular redox signaling which protects cells from oxidative stress. This protein inhibits the antioxidative function of thioredoxin resulting in the accumulation of reactive oxygen species and cellular stress. This protein also functions as a regulator of cellular metabolism and of endoplasmic reticulum (ER) stress. This protein may also function as a tumor suppressor. Alternate splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the TXNIP antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K5-Q391) was used as the immunogen for the TXNIP antibody.

Storage

After reconstitution, the TXNIP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com