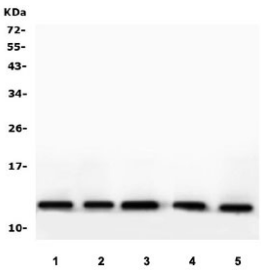
Thioredoxin 2 Antibody (RQ5560)

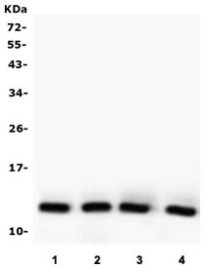
Catalog No.	Formulation	Size
RQ5560	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

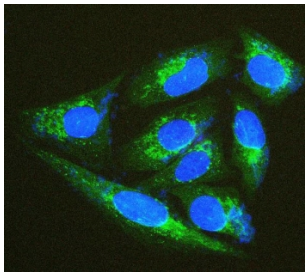
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q99757
Applications	Western blot: 0.25-0.5ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This Thioredoxin 2 antibody is available for research use only.



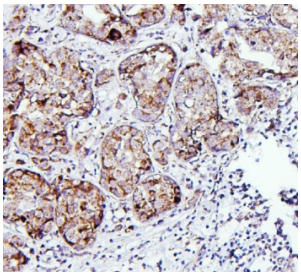
Western blot testing of human 1) HeLa, 2) K562, 3) ThP-1, 4) U-2 OS and 5) U-87 MG cell lysate with Thioredoxin 2 antibody. Predicted molecular weight ~13 kDa.



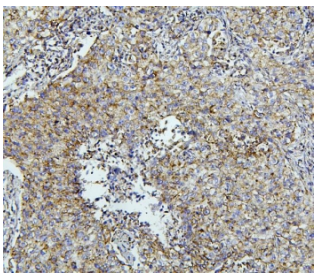
Western blot testing of 1) rat kidney, 2) mouse liver, 3) mouse kidney and 4) mouse testis lysate with Thioredoxin 2 antibody. Predicted molecular weight ~13 kDa.



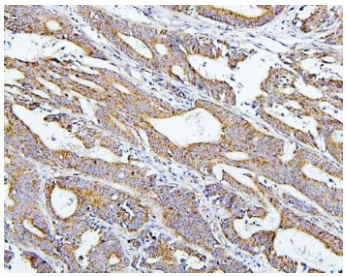
Immunofluorescent staining of FFPE human U-2 OS cells with Thioredoxin 2 antibody (green) and DAPI (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



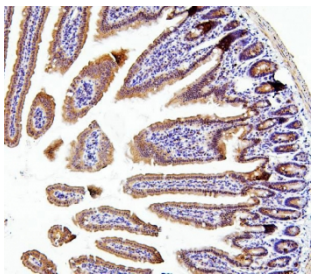
IHC staining of FFPE human breast cancer with Thioredoxin 2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



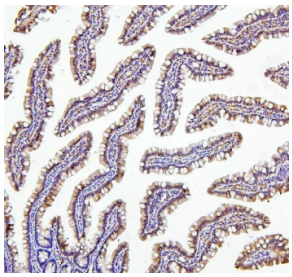
IHC staining of FFPE human lung cancer with Thioredoxin 2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



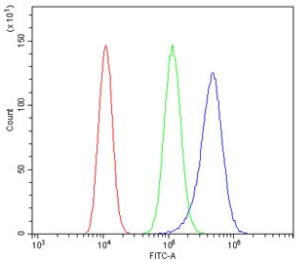
IHC staining of FFPE human intestinal cancer with Thioredoxin 2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



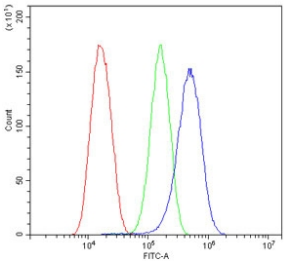
IHC staining of FFPE mouse small intestine with Thioredoxin 2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestine with Thioredoxin 2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Flow cytometry testing of human ThP-1 cells with Thioredoxin 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Thioredoxin 2 antibody.



Flow cytometry testing of human U-87 MG cells with Thioredoxin 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Thioredoxin 2 antibody.

Description

Thioredoxin, mitochondrial also known as thioredoxin-2 is a protein that in humans is encoded by the TXN2 gene on chromosome 22. It is mapped to 22q12.3. This nuclear gene encodes a mitochondrial member of the thioredoxin family, a group of small multifunctional redox-active proteins. The encoded protein may play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis.

Application Notes

Optimal dilution of the Thioredoxin 2 antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids T60-G166) was used as the immunogen for the Thioredoxin 2 antibody.

Storage

After reconstitution, the Thioredoxin 2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.