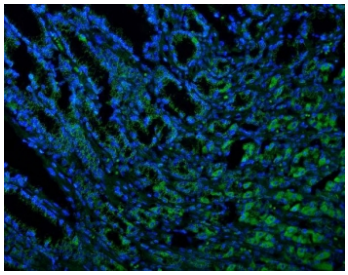
TXN2 Antibody / Thioredoxin 2 [clone 4H3] (RQ5640)

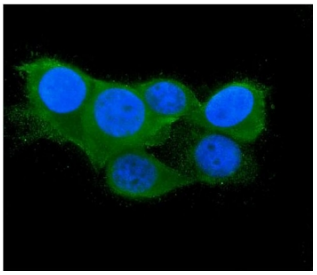
Catalog No.	Formulation	Size
RQ5640	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

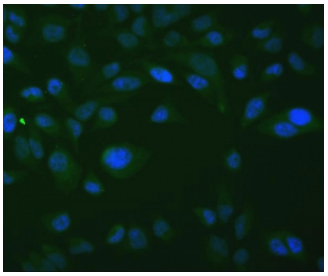
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Name	4H3
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q99757
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This TXN2 antibody is available for research use only.



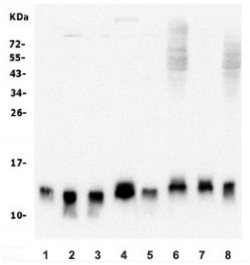
Immunofluorescent staining of FFPE human intestinal cancer with TXN2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA for 20 min.



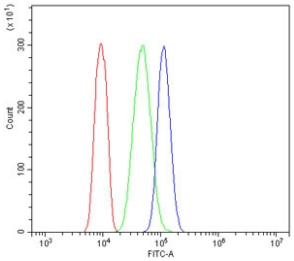
Immunofluorescent staining of FFPE human MCF7 cells with TXN2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



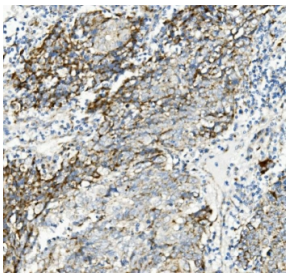
Immunofluorescent staining of FFPE human HeLa cells with TXN2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



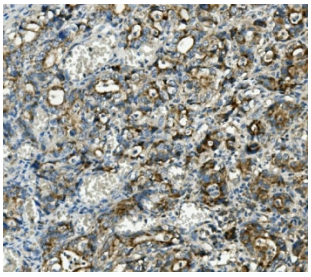
Western blot testing of human 1) HeLa, 2) Raji, 3) K562, 4) A549, 5) Caco-2, 6) ThP-1, 7) rat PC-12 and 8) mouse RAW264.7 lysate with TXN2 antibody. Predicted molecular weight ~13 kDa.



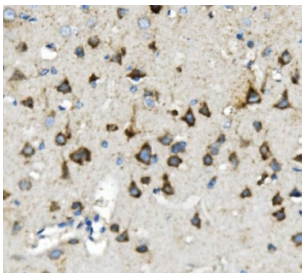
Flow cytometry testing of human HL-60 cells with TXN2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TXN2 antibody.



IHC staining of FFPE human lung cancer with TXN2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human stomach cancer with TXN2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain with TXN2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

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 TXN2 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids T60-G166) was used as the immunogen for the TXN2 antibody.

Storage

After reconstitution, the TXN2 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

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