

For Research Use Only

# Thioredoxin Monoclonal antibody, PBS Only



Catalog Number: 66475-1-PBS

Featured Product

## Basic Information

Catalog Number:

66475-1-PBS

Size:

100ug, Concentration: 1 mg/ml by  
Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG6355

GenBank Accession Number:

BC003377

GeneID (NCBI):

7295

UNIPROT ID:

P10599

Full Name:

thioredoxin

Calculated MW:

12 kDa

Observed MW:

12 kDa

Purification Method:

Protein A purification

CloneNo.:

1F3C1

## Applications

Tested Applications:

WB, IF, IHC, Indirect ELISA

Species Specificity:

Human

## Background Information

TXN, TRDX, TRX, TRX1, ADF and SASP, belongs to the thioredoxin family. It participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. TXN plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. TXN induces the FOS/JUN AP-1 DNA-binding activity in ionizing radiation (IR) cells through its oxidation/reduction status and stimulates AP-1 transcriptional activity.

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

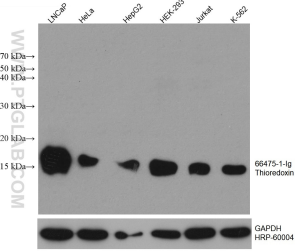
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

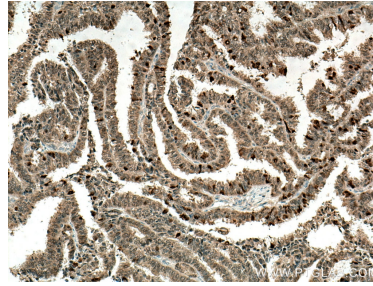
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

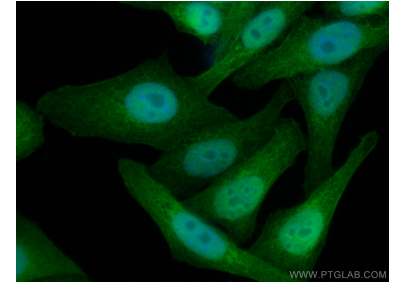
## Selected Validation Data



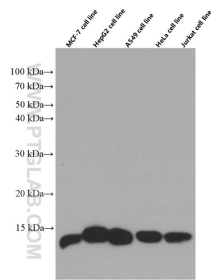
Various lysates were subjected to SDS PAGE followed by western blot with 66475-1-Ig (TXN antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 66475-1-PBS in a different storage buffer formulation.



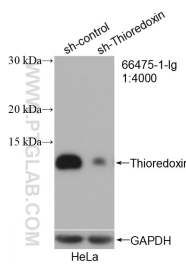
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66475-1-Ig (Thioredoxin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66475-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Thioredoxin antibody (66475-1-Ig, Clone: 1F3C1 ) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66475-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 66475-1-Ig (Thioredoxin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66475-1-PBS in a different storage buffer formulation.



WB result of Thioredoxin antibody (66475-1-Ig; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Thioredoxin transfected HeLa cells. This data was developed using the same antibody clone with 66475-1-PBS in a different storage buffer formulation.