

For Research Use Only

# CoraLite® Plus 488-conjugated TXN Monoclonal antibody



Catalog Number: CL488-66475

## Basic Information

<b>Catalog Number:</b> CL488-66475	<b>GenBank Accession Number:</b> BC003377	<b>Purification Method:</b> Protein A purification
<b>Size:</b> Source: Mouse	<b>GeneID (NCBI):</b> 7295	<b>CloneNo.:</b> 1F3C1
<b>Isotype:</b> IgG2a	<b>UNIPROT ID:</b> P10599	<b>Recommended Dilutions:</b> IF 1:500-1:2000
<b>Immunogen Catalog Number:</b> AG6355	<b>Full Name:</b> thioredoxin	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
	<b>Calculated MW:</b> 12 kDa	
	<b>Observed MW:</b> 12 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF : HepG2 cells,
<b>Species Specificity:</b> 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 -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

T: 4006900926

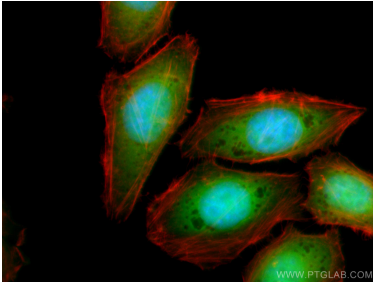
E: Proteintech-CN@ptglab.com

W: ptgcn.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488-conjugated TXN antibody (CL488-66475, Clone: 1F3C1 ) at dilution of 1:1000, C594-Phalloidin (red).