

CoraLite® Plus 488-conjugated TXN Monoclonal antibody

Catalog Number: **CL488-66475**

Basic Information

Catalog Number:

CL488-66475

Size:

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

Recommended Dilutions:

IF/ICC 1:500-1:2000

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

Human

Positive Controls:

IF/ICC : HepG2 cells,

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:

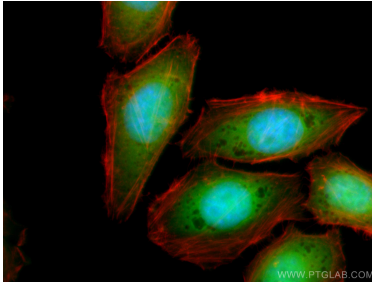
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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).