

For Research Use Only

CoraLite®594-conjugated TXNRD1 Monoclonal antibody

Catalog Number: CL594-67728

Featured Product

1 Publications



Basic Information

Catalog Number:

CL594-67728

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG30071

GenBank Accession Number:

BC018122

GeneID (NCBI):

7296

UNIPROT ID:

Q16881

Full Name:

thioredoxin reductase 1

Calculated MW:

55 kDa

Observed MW:

50-70 kDa

Purification Method:

Protein G purification

CloneNo.:

1B10C4

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Cited Applications:

IF

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

IF/ICC : HeLa cells,

Background Information

Thioredoxin reductase-1 (TXNRD1) is uniquely capable of utilizing electrons from NADPH to recover the reduced state of TRX1. Interestingly, TXNRD1 is upregulated in many human malignancies and promotes cancer progression, and attenuation of TXNRD1 levels effectively suppresses the growth of tumor cells (PMID: 31384178). TXNRD1 is also upregulated in many human malignancies and functions as a prognostic factor for many tumors, such as oral squamous cell carcinomas, lung cancer, breast cancer, and astrocytomas. TXNRD1 protein levels were analyzed by immunoblotting. Bands of ~55 kDa for TXNRD1 were observed. IHC analysis suggested TXNRD1 was mainly located in the cytoplasm. (PMID: 28536696, PMID: 20584310)

Notable Publications

Author	Pubmed ID	Journal	Application
Ming-Shou Hsieh	38636790	Chem Biol Interact	IF

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:

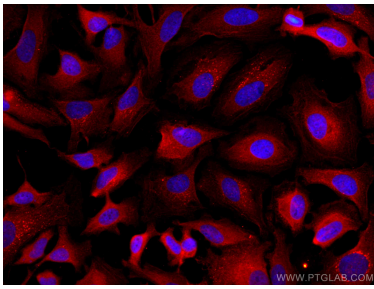
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

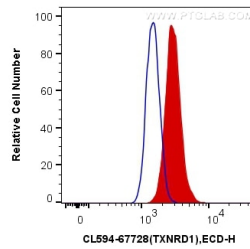
W: ptglab.com

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

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite®594 TXNRD1 antibody (CL594-67728, Clone: 1B10C4) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human TXNRD1 (CL594-67728, Clone:1B10C4) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).