

For Research Use Only

TXNRD1 Monoclonal antibody

Catalog Number: 67728-1-Ig

Featured Product

15 Publications



Basic Information

Catalog Number:

67728-1-Ig

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 294 ug/ml by Bradford method using BSA as the standard;

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 A purification

CloneNo.:

1B10C4

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

Human, mouse, rat

Cited Species:

human, mouse, chicken

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HSC-T6 cells, A549 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells

IHC : human liver cancer tissue,

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 |
|-------------|-----------|-------------|-------------|
| Wei Li | 36276126 | Front Oncol | WB |
| Zhongren Xu | 35671636 | Redox Biol | WB,IF |
| Weiwei Yi | 33789111 | Cell Rep | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

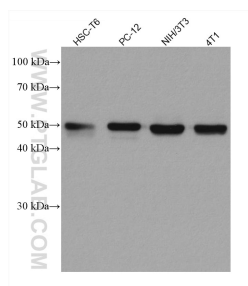
For technical support and original validation data for this product please contact:

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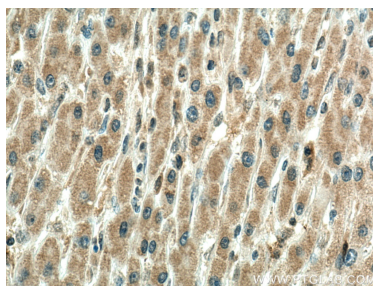
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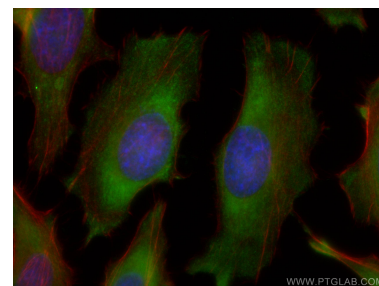
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67728-1-Ig (TXNRD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67728-1-Ig (TXNRD1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using TXNRD1 antibody (67728-1-Ig, Clone: 1B10C4) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).