For Research Use Only

TXNRD1 Polyclonal antibody

Catalog Number: 11117-1-AP

Featured Product

52 Publications



Basic Information

Catalog Number:

GenBank Accession Number:

Purification Method: Antigen affinity purification

11117-1-AP

BC018122 GeneID (NCBI):

Recommended Dilutions:

150ul, Concentration: 500 µg/ml by

WB 1:3000-1:10000

Nanodrop and 247 µg/ml by Bradford Full Name:

thioredoxin reductase 1

IHC 1:300-1:1200 IF 1:50-1:500

method using BSA as the standard;

Calculated MW:

55 kDa

Isotype: IgG

55 kDa

Rabbit

Immunogen Catalog Number:

AG1618

Observed MW:

Applications

Tested Applications:

FC, IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB: HeLa cells, MCF-7 cells, Jurkat cells, mouse heart

tissue, rat heart tissue

IHC: human testis tissue, human breast cancer tissue,

mouse testis tissue

IF: HeLa cells.

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

buffer pH 6.0

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 inmmunoblotting. 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
Dan Liu	30267739	Neurotoxicology	WB
Xiaoqing Zheng	28965082	Redox Biol	WB
Wenxuan Jiao	34540892	Front Mol Biosci	WB

Storage

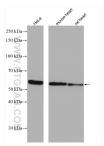
Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

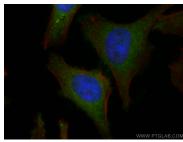
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

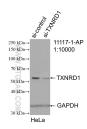
Selected Validation Data



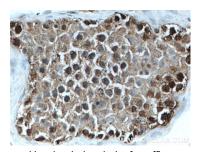
Various lysates were subjected to SDS PAGE followed by western blot with 11117-1-AP (TXNRD1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



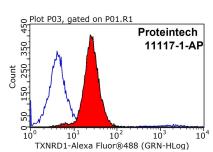
Immunofluorescent analysis of (4% PFA) fixed Hela cells using TXNRD1 antibody (11117-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



WB result of TXNRD1 antibody (11117-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TXNRD1 transfected HeLa cells.



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 11117-1-AP (TXNRD1 antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 MCF-7 cells were stained with 0.2ug TXNRD1 antibody (11117-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.