

For Research Use Only

TXNRD3 Polyclonal antibody

Catalog Number: 19517-1-AP

4 Publications



Basic Information

Catalog Number:

19517-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

XM_001130163

GeneID (NCBI):

114112

Full Name:

thioredoxin reductase 3

Calculated MW:

75 kDa

Observed MW:

82 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig

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 : mouse testis tissue, human testis tissue, rat testis tissue

IHC : mouse testis tissue,

Background Information

TXNRD3, also named as TGR and TRXR3, belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family. TXNRD3 displays thioredoxin reductase, glutaredoxin and glutathione reductase activities. TXNRD3 catalyzes the reaction: Thioredoxin + NADP+ = thioredoxin disulfide + NADPH. TXNRD3 promotes disulfide bond formation between GPX4 and various sperm proteins and may play a role in sperm maturation by promoting formation of sperm structural components.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhipeng Li	35637349	Nat Chem Biol	WB
Caichi Wu	35433920	Front Vet Sci	WB
Rong Wang	38115765	Adv Sci (Weinh)	WB

Storage

Storage:

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

Storage Buffer:

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

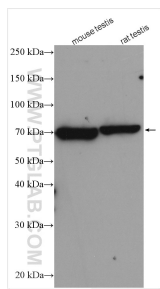
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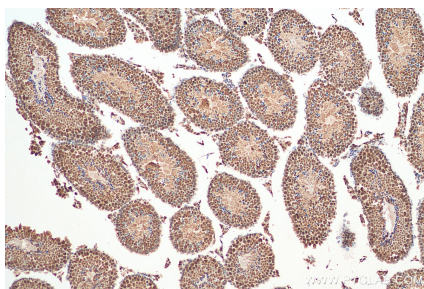
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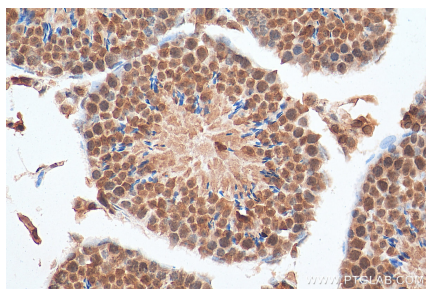
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19517-1-AP (TXNRD3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 19517-1-AP (TXNRD3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 19517-1-AP (TXNRD3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).