

For Research Use Only

TXNRD3 Polyclonal antibody

Catalog Number: 19517-1-AP **4 Publications**



Basic Information

Catalog Number: 19517-1-AP	GenBank Accession Number: XM_001130163	Purification Method: Antigen affinity purification
Size: 900 µg/ml	GeneID (NCBI): 114112	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	Full Name: thioredoxin reductase 3	
Isotype: IgG	Calculated MW: 75 kDa	
	Observed MW: 82 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB, IF	WB: mouse testis tissue, human testis tissue, rat testis tissue
Species Specificity: human, mouse, rat	IHC: mouse testis tissue,
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	

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

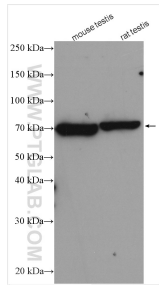
Storage

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

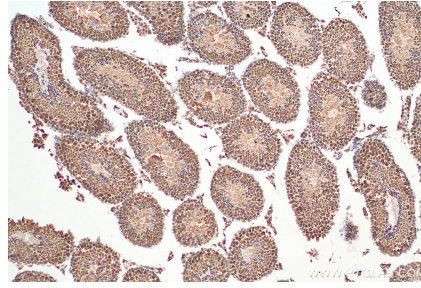
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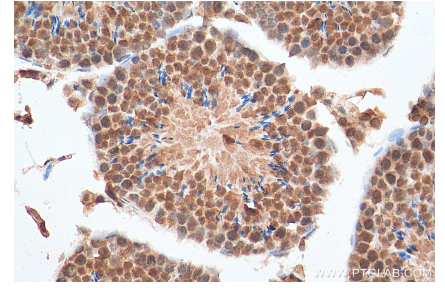
Selected Validation Data



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).