

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: 150ul , Concentration: 900 µg/ml by Nanodrop; | 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

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|--|--|
| Tested Applications: IHC, WB, ELISA | Positive Controls: |
| Cited Applications: IF, WB | 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

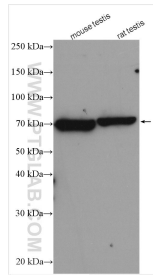
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

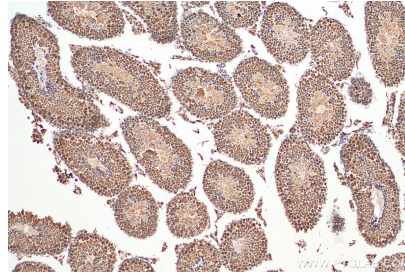
For technical support and original validation data for this product please contact:
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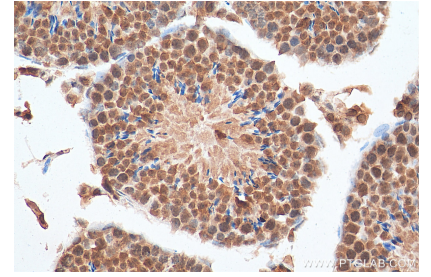
Selected Validation Data



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).