

## Rabbit anti-Human, Rat TXNRD2 Polyclonal Antibody | anti-TXNRD2 antibody

Anti-TXNRD2 antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                       |
|-----------|--------|------------|------------------------------------|
| AAA45491  | Rabbit | Human, Rat | Immunohistochemistry, Western Blot |

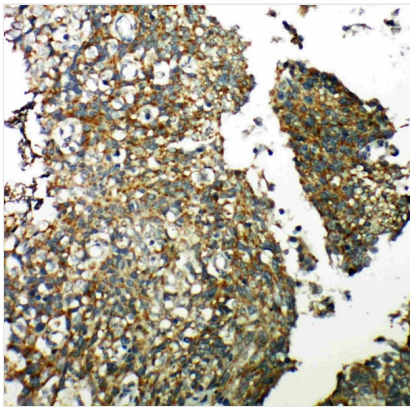
### PRODUCT SYNONYMS

TXNRD2; Polyclonal Antibody; Anti-TXNRD2 antibody; Thioredoxin reductase 2; mitochondrial; thioredoxin reductase 2; mitochondrial antibody; selenoprotein Z antibody; SELZ antibody; Thioredoxin reductase 2 antibody; Thioredoxin reductase 2 mitochondrial antibody; thioredoxin reductase 3 antibody; thioredoxin reductase beta antibody; Thioredoxin reductase TR3 antibody; TR 3 antibody; TR antibody; TR beta antibody; TR-beta antibody; TR3 antibody; TRXR 2 antibody; TRXR2 antibody; TRXR2\_HUMAN antibody; TXNRD 2 antibody; Txnrd2 antibody; anti-TXNRD2 antibody

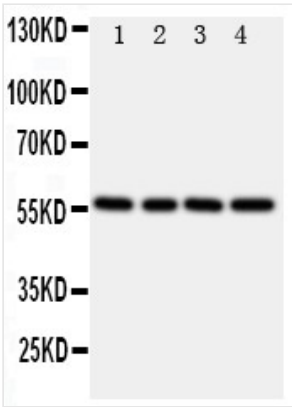
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                 |
| Reactivity                                       | Human, Rat                                                                                                                                                                                                                             |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                             |
| Isotype                                          | IgG                                                                                                                                                                                                                                    |
| Purity/Purification                              | Immunogen affinity purified.                                                                                                                                                                                                           |
| Form/Format                                      | Lyophilized                                                                                                                                                                                                                            |
| Sequence Length                                  | 524                                                                                                                                                                                                                                    |
| Applicable Applications for anti-TXNRD2 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                          |
| Immunogen                                        | A synthetic peptide corresponding to a sequence at the C-terminus of human TXNRD2 (418-434aa RHGQEHVEVYHAHYKPL), different from the related rat sequence by three amino acids, and from the related mouse sequence by two amino acids. |
| Contents                                         | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                                                                 |
| Reconstitution                                   | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                                                   |
| Preparation and Storage                          | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.                                   |

IMAGES



IHC (Immunohistochemistry)  
Anti-TXNRD2 antibody, AAA45491, IHC(P)IHC(P): Human Lung Cancer Tissue



WB (Western Blot)  
Anti-TXNRD2 antibody, AAA45491, Western blottingLane 1: Rat Kidney Tissue LysateLane 2: Rat Ovary Tissue LysateLane 3: Rat Liver Tissue LysateLane 4: SMMC Cell Lysate

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-TXNRD2 antibody</b> | <p><b>Description:</b> Rabbit IgG polyclonal antibody for Thioredoxin reductase 2, mitochondrial(TXNRD2) detection. Tested with WB, IHC-P in Human, Rat.</p> <p><b>Background:</b> TXNRD2(Thioredoxin reductase 2), also known as TRXR2, TR3, SELZ, or TR-BETA, Thioredoxin reductases, are selenocysteine(sec)-containing flavoenzymes that maintain thioredoxins, small proteins that catalyze redox reactions, in the reduced state using the reducing power of NADPH. By STS analysis and genomic sequence analysis, respectively, Miranda-Vizuite et al.(1999) and Sun et al.(1999) mapped the TXNRD2 gene to chromosome 22q11.2. Miranda-Vizuite et al.(1999) mapped the mouse gene to chromosome 16. Gasdaska et al.(1999) showed that TXNRD2 was a thioredoxin reductase that could directly reduce proteins such as insulin.</p> |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 182705230                                                                                                                               |
| NCBI GeneID                      | 10587                                                                                                                                   |
| UniProt Accession #              | Q9NNW7; O95840; Q96IJ2; Q9H2Z5; Q9NZV3; Q9NZV4; Q9P2Y0; Q9P2Y1; Q9UQU8                                                                  |
| Molecular Weight                 | 30,291 Da                                                                                                                               |
| NCBI Official Full Name          | Thioredoxin reductase 2, mitochondrial                                                                                                  |
| NCBI Official Synonym Full Names | thioredoxin reductase 2                                                                                                                 |
| NCBI Official Symbol             | TXNRD2                                                                                                                                  |
| NCBI Official Synonym Symbols    | TR; TR3; SELZ; TRXR2; TR-BETA                                                                                                           |
| NCBI Protein Information         | thioredoxin reductase 2, mitochondrial; selenoprotein Z; thioredoxin reductase 3; thioredoxin reductase TR3; thioredoxin reductase beta |
| UniProt Protein Name             | Thioredoxin reductase 2, mitochondrial                                                                                                  |
| UniProt Gene Name                | TXNRD2                                                                                                                                  |
| UniProt Synonym Gene Names       | KIAA1652; TRXR2; SelZ                                                                                                                   |
| UniProt Entry Name               | TRXR2_HUMAN                                                                                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.