# TRXR1 Rabbit pAb

CatalogNo: YN2811 Orthogonal Validated

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat,Mouse,

Applications
- WB,ELISA

MW
- 71kD (Observed)

Isotype
- IgG

## Recommended Dilution Ratios

**WB 1:500-2000**
**ELISA 1:5000-20000**

## Storage

| | |
|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol,0.5% BSA and 0.02% sodium azide. |

## Basic Information

| | |
|---|---|
| **Clonality** | Polyclonal |

## Immunogen Information

| | |
|---|---|
| **Immunogen** | Synthesized peptide derived from part region of human protein AA range: 268-318 |
| **Specificity** | TRXR1 Polyclonal Antibody detects endogenous levels of protein. |

## Target Information

| | |
|---|---|
| **Gene name** | TXNRD1 GRIM12 KDRF |

**Protein Name** Thioredoxin reductase 1, cytoplasmic (TR) (Gene associated with retinoic and interferon-induced mortality 12 protein) (GRIM-12) (Gene associated with retinoic and IFN-induced mortality 12 protein) (KM-102-derived reductase-like factor) (Thioredoxin reductase TR1)

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 7296; | Q16881; |
| Mouse | | Q9JMH6; |
| Rat | | O89049; |

**Cellular Localization** [Isoform 1]: Cytoplasm .; [Isoform 4]: Cytoplasm . Nucleus .; [Isoform 5]: Cytoplasm .

**Tissue specificity** [Isoform 1]: Expressed predominantly in Leydig cells (at protein level). Also expressed in ovary, spleen, heart, liver, kidney and pancreas and in a number of cancer cell lines. ; [Isoform 4]: Widely expressed with highest levels in kidney, testis, uterus, ovary, prostate, placenta and fetal liver.

**Function** Catalytic activity:Thioredoxin + NADP(+) = thioredoxin disulfide + NADPH.,cofactor:Binds 1 FAD per subunit.,Domain:The N-terminal glutaredoxin domain found in isoform 1 does not contain the C-P-Y-C redox-active motif normally found in glutaredoxins and has been found to be inactive in classical glutaredoxin assays.,Function:Isoform 1 may possess glutaredoxin activity as well as thioredoxin reductase activity and induces actin and tubulin polymerization, leading to formation of cell membrane protrusions. Isoform 4 enhances the transcriptional activity of estrogen receptors alpha and beta while isoform 5 enhances the transcriptional activity of the beta receptor only. Isoform 5 also mediates cell death induced by a combination of interferon-beta and retinoic acid.,induction:Isoform 5 is induced by a combination of interferon-beta and retinoic acid (at protein level). Isoform 1 is induced by estradiol or testosterone in HeLa cells.,miscellaneous:The thioredoxin reductase active site is a redox-active disulfide bond. The selenocysteine residue is also essential for catalytic activity.,PTM:The N-terminus of isoform 5 is blocked.,sequence Caution:Translated as Sec.,similarity:Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family.,similarity:Contains 1 glutaredoxin domain.,subunit:Homodimer. Isoform 4 interacts with ESR1 and ESR2.,tissue specificity:Isoform 1 is expressed predominantly in Leydig cells (at protein level). Also expressed in ovary, spleen, heart, liver, kidney and pancreas and in a number of cancer cell lines. Isoform 4 is widely expressed with highest levels in kidney, testis, uterus, ovary, prostate, placenta and fetal liver.,

## Validation Data

## Contact information


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