

TXNRD1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22147c**Specification**

TXNRD1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q16881
Other Accession	O62768 , Q9MY8 , Q5NVA2
Reactivity	Human
Predicted	Bovine, Pig
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	70906

TXNRD1 Antibody (Center) - Additional Information**Gene ID** 7296**Other Names**

Thioredoxin reductase 1, cytoplasmic, TR, 1.8.1.9, 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, TXNRD1, GRIM12, KDRF

Target/Specificity

This TXNRD1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 271-305 amino acids from the Central region of human TXNRD1.

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TXNRD1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TXNRD1 Antibody (Center) - Protein Information**Name** TXNRD1 ([HGNC:12437](#))

Synonyms GRIM12, KDRF

Function Reduces disulfideprotein thioredoxin (Trx) to its dithiol- containing form (PubMed:[8577704](#)). Homodimeric flavoprotein involved in the regulation of cellular redox reactions, growth and differentiation. Contains a selenocysteine residue at the C-terminal active site that is essential for catalysis (Probable). Also has reductase activity on hydrogen peroxide (H2O2) (PubMed:[10849437](#)).

Cellular Location

[Isoform 1]: Cytoplasm [Isoform 5]: Cytoplasm

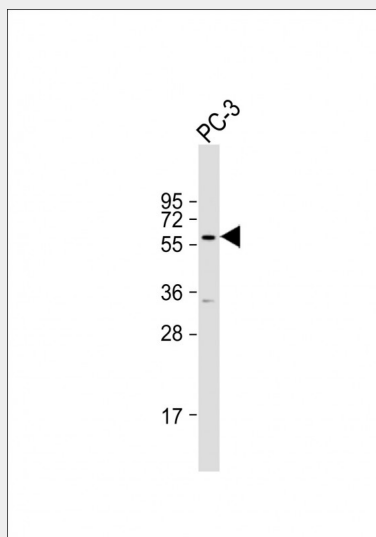
Tissue Location

[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

TXNRD1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TXNRD1 Antibody (Center) - Images

Anti-TXNRD1 Antibody (Center) at 1:2000 dilution + PC-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 71 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

TXNRD1 Antibody (Center) - Background

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.

TXNRD1 Antibody (Center) - References

Gasdaska P.Y.,et al.FEBS Lett. 373:5-9(1995).
Koishi R.,et al.J. Biol. Chem. 272:2570-2577(1997).
Hofman E.R.,et al.Mol. Cell. Biol. 18:6493-6504(1998).
Rundloef A.-K.,et al.Free Radic. Biol. Med. 36:641-656(2004).
Schuetze N.,et al.Submitted (AUG-1997) to the EMBL/GenBank/DDBJ databases.