10320 Camino Santa Fe, Suite G
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TXNRD1 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22148b

Specification

TXNRD1 Antibody (C-Term) - Product Information

Application	**WB,E**
Primary Accession	Q16881
Other Accession	Q9JMH6, Q9MYY8, Q5NVA2, O89049
Reactivity	**Human, Mouse**
Predicted	**Pig, Rat**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**70906**

TXNRD1 Antibody (C-Term) - 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 516-550 amino acids from human TXNRD1.

Dilution
WB~~1:2000
E~~Use at an assay dependent concentration.

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 (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

TXNRD1 Antibody (C-Term) - Protein Information

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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

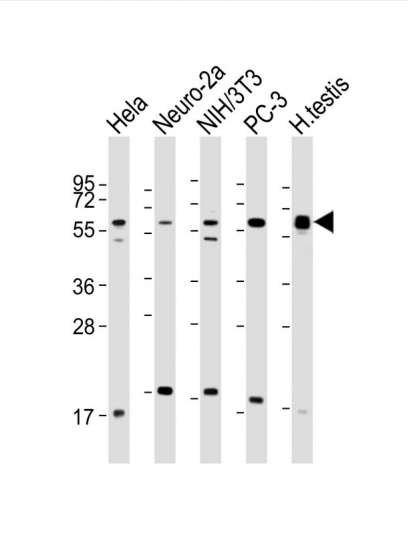
Tissue Location
[Isoform 1]: Expressed predominantly in Leydig cells (at protein level). Also expressed in ovary, spleen, heart, liver, kidney and pancreas and in a number of cancer cell lines

TXNRD1 Antibody (C-Term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TXNRD1 Antibody (C-Term) - Images



All lanes : Anti-TXNRD1 Antibody (C-Term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: Neuro-2a whole cell lysate Lane 3: NIH/3T3 whole cell lysate Lane 4: PC-3 whole cell lysate Lane 5: human testis 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.

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TXNRD1 Antibody (C-Term) - 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 (C-Term) - References

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Koishi R.,et al.J. Biol. Chem. 272:2570-2577(1997).
Hofman E.R.,et al.Mol. Cell. Biol. 18:6493-6504(1998).
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