

TRXR1 / TXNRD1 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS13070**Specification****TRXR1 / TXNRD1 Antibody (C-Terminus) - Product Information**

Application	IHC
Primary Accession	Q16881
Reactivity	Human, Monkey, Pig, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	71kDa KDa

TRXR1 / TXNRD1 Antibody (C-Terminus) - 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

Human TXNRD1. This antibody is expected to recognise reported isoform 1 (NP_003321.2), isoform 2 (NP_877393.1; NP_877419.1; NP_877420.1) and isoform 3 (NP_001087240.1)

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

TRXR1 / TXNRD1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

TRXR1 / TXNRD1 Antibody (C-Terminus) - 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

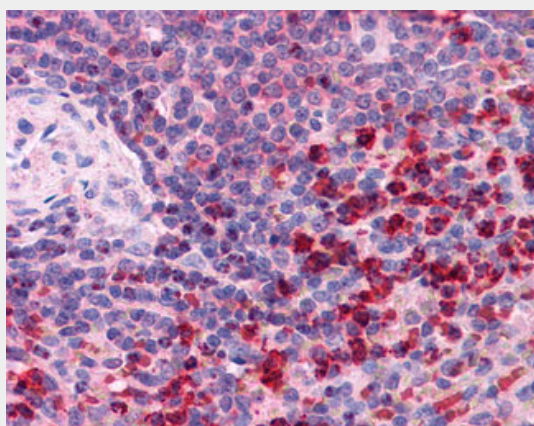
Tissue Location

[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

TRXR1 / TXNRD1 Antibody (C-Terminus) - 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](#)

TRXR1 / TXNRD1 Antibody (C-Terminus) - Images

Anti-TXNRD1 antibody IHC of human spleen.

TRXR1 / TXNRD1 Antibody (C-Terminus) - 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.

TRXR1 / TXNRD1 Antibody (C-Terminus) - 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).
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