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TXNRD1 Rabbit mAb

Catalog # AP76218

Product Information

Application	WB, IHC-P, IHC-F, FC, IP
Primary Accession	Q16881
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	70906

Additional Information

Gene ID	7296
Other Names	TXNRD1
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IHC-F~~N/A FC~~1:100-1:500 IP~~1:10-1:100
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

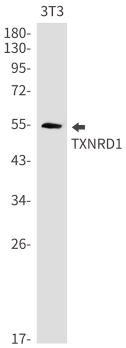
Protein Information

Name	TXNRD1 (HGNC:12437)
Synonyms	GRIM12, KDRF
Function	Reduces disulfide protein thioredoxin (Trx) to its dithiol- containing form (PubMed:8577704). Homodimeric flavoprotein involved in the regulation of cellular redox reactions, growth and differentiation. A selenocysteine residue at the C-terminal active site 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

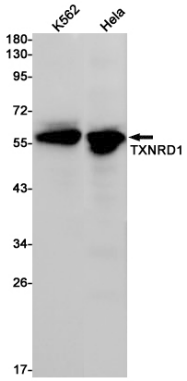
Background

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.

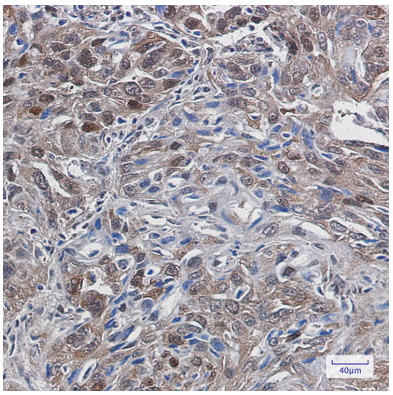
Images



Western blot analysis of TXNRD1 in 3T3 lysates using Thioredoxin Reductase 1 antibody.

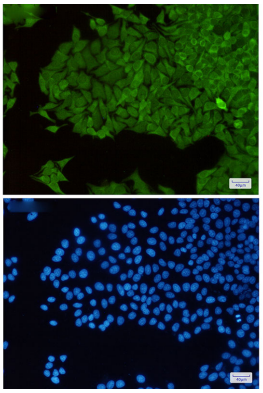


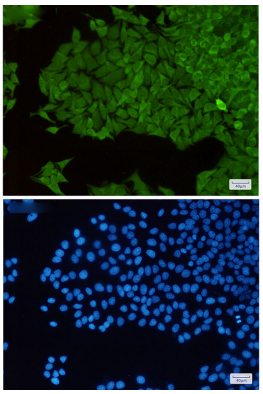
Western blot analysis of TXNRD1 in K562, Hela lysates using TXNRD1 antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using TXNRD1 antibody.
High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Immunocytochemistry analysis of TXNRD1(green) in Hela using TXNRD1 antibody,and DAPI(blue).





Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.