10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TXNRD1 Antibody

Rabbit mAb
Catalog # AP91399

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	Q16881
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	GRIM12; KDRF; KM 102 derived reductase like factor; xidoreductase; Thioredoxin reductase 1; TR1; TRXR1; TXNR; TXNRD1
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	70906

Additional Information

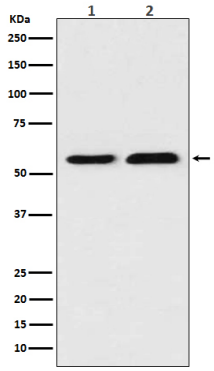
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:120
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human TXNRD1
Description	Isoform 1 may possess glutaredoxin activity as well as thioredoxin reductase activity and induces actin and tubulin polymerization, 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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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

Images



Western blot analysis of TXNRD1 expression in (1) Jurkat cell lysate; (2) NIH/3T3 cell lysate.

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