

## ARG59280 anti-Thioredoxin Reductase 1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Thioredoxin Reductase 1
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Thioredoxin Reductase 1
Species	Human
Immunogen	Synthesized peptide derived from Human Thioredoxin Reductase 1.
Conjugation	Un-conjugated
Alternate Names	Thioredoxin reductase 1, cytoplasmic; EC 1.8.1.9; Gene associated with retinoic and IFN-induced mortality 12 protein; Gene associated with retinoic and interferon-induced mortality 12 protein; TR; TXNR; TRXR1; KM-102-derived reductase-like factor; TR1; GRIM-12; Thioredoxin reductase TR1

### Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	55 kDa	

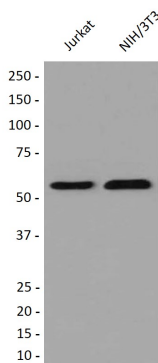
### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	TXNRD1
Gene Full Name	thioredoxin reductase 1
Background	This gene encodes a member of the family of pyridine nucleotide oxidoreductases. This protein reduces thioredoxins as well as other substrates, and plays a role in selenium metabolism and protection against oxidative stress. The functional enzyme is thought to be a homodimer which uses FAD as a cofactor. Each subunit contains a selenocysteine (Sec) residue which is required for catalytic activity. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenocysteine-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing results in several transcript variants encoding the same or different isoforms. [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Calculated Mw	71 kDa
PTM	The N-terminus of isoform 5 is blocked.  ISGylated. [UniProt]
Cellular Localization	Cytoplasm. Isoform 4: Cytoplasm. Nucleus. Isoform 5: Cytoplasm. [UniProt]

## Images



ARG59280 anti-Thioredoxin Reductase 1 antibody WB image

Western blot: Jurkat and NIH/3T3 cell lysates stained with ARG59280 anti-Thioredoxin Reductase 1 antibody.