

## ARG57177 anti-Thioredoxin Reductase 1 antibody [30F1]

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [30F1] recognizes Thioredoxin Reductase 1
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	30F1
Isotype	IgG2b, kappa
Target Name	Thioredoxin Reductase 1
Species	Human
Immunogen	Recombinant fragment around aa. 161-647 of 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
	ICC/IF	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

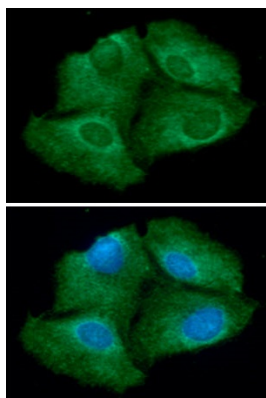
### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
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.

## Bioinformation

Database links	<a href="#">GeneID: 7296 Human</a> <a href="#">Swiss-port # Q16881 Human</a>
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.

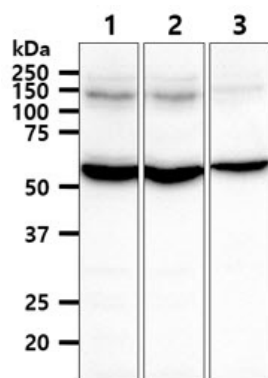
## Images



ARG57177 anti-Thioredoxin Reductase 1 antibody [30F1] ICC/IF image

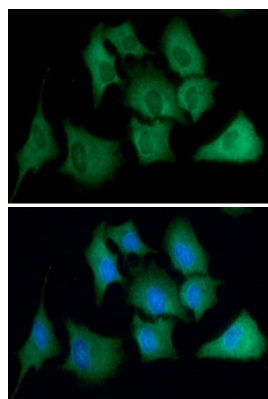
Immunofluorescence: Hep3B cells line stained with ARG57177 anti-Thioredoxin Reductase 1 antibody [30F1] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG57177 anti-Thioredoxin Reductase 1 antibody [30F1] WB image

Western blot: 40 µg of 1) HeLa, 2) A549, and 3) PC3 cell lysates stained with ARG57177 anti-Thioredoxin Reductase 1 antibody [30F1] at 1:1000.



ARG57177 anti-Thioredoxin Reductase 1 antibody [30F1] ICC/IF image

Immunofluorescence: A549 cells line stained with ARG57177 anti-Thioredoxin Reductase 1 antibody [30F1] at 1:100 (Green).

DAPI (Blue) for nucleus staining.