

Datasheet for ABIN2855577
anti-TXNRD1 antibody



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5 Images

Overview

Quantity:	100 µL
Target:	TXNRD1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TXNRD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human TrxR1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit polyclonal antibody to TrxR1 (thioredoxin reductase 1) TrxR1 antibody [N1N3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	TXNRD1
Alternative Name:	thioredoxin reductase 1 (TXNRD1 Products)

Target Details

Background:	<p>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.</p> <p>Cellular Localization: Cytoplasm , Isoform 4: Cytoplasm , Nucleus , Isoform 5: Cytoplasm</p>
Molecular Weight:	71 kDa
Gene ID:	7296
UniProt:	Q16881
Pathways:	Regulation of Lipid Metabolism by PPARalpha , Regulation of Carbohydrate Metabolic Process , Cell RedoxHomeostasis

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: HepG2
Restrictions:	For Research Use only

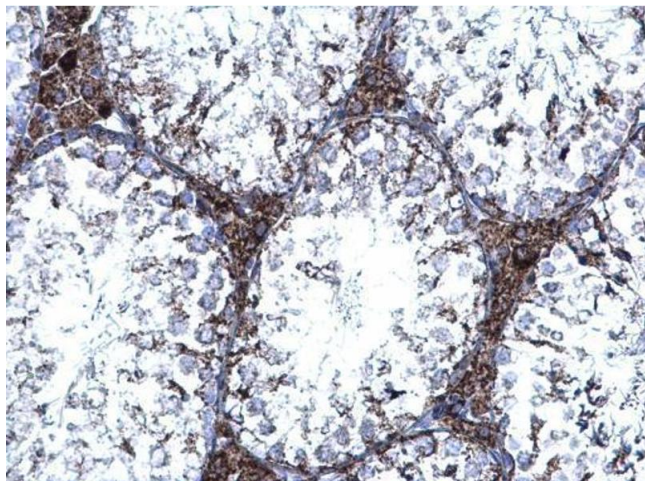
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

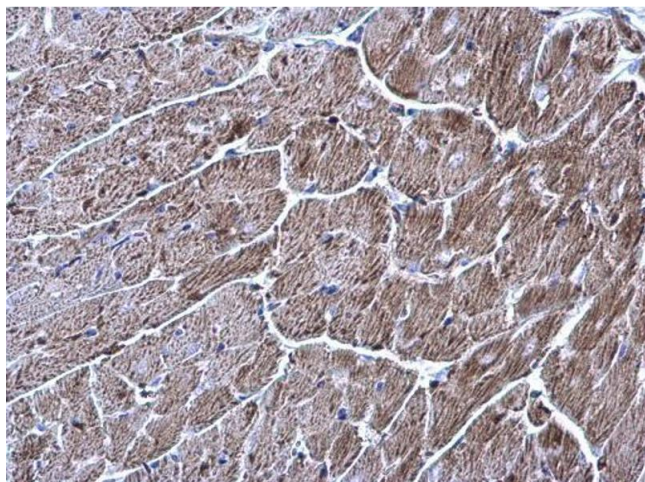
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



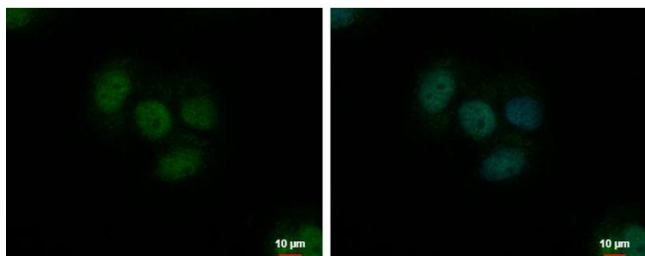
Immunohistochemistry

Image 1. IHC-P Image TrxR1 antibody [N1N3] detects TrxR1 protein at cytoplasm on mouse testis by immunohistochemical analysis. Sample: Paraffin-embedded mouse testis. TrxR1 antibody [N1N3], diluted at 1:500.



Immunohistochemistry

Image 2. IHC-P Image TrxR1 antibody [N1N3] detects TrxR1 protein at cytoplasm on mouse heart by immunohistochemical analysis. Sample: Paraffin-embedded mouse heart. TrxR1 antibody [N1N3], diluted at 1:500.



Immunofluorescence

Image 3. ICC/IF Image TrxR1 antibody [N1N3] detects TrxR1 protein at nucleus by immunofluorescent analysis. Sample: MCF-7 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: TrxR1 protein stained by TrxR1 antibody [N1N3], diluted at 1:500. Blue: Hoechst 33342 staining.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2855577.