

Rabbit TRXR2 Polyclonal Antibody | anti-TRXR2 antibody

TRXR2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322045	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TRXR2; Polyclonal Antibody; TRXR2 Antibody; mitochondrial; Selenoprotein Z; SelZ; Thioredoxin reductase 2; Thioredoxin reductase 2 mitochondrial; Thioredoxin reductase 3; Thioredoxin reductase beta; Thioredoxin reductase TR3; TR 3; TR; TR beta; TR-beta; TR3; TRXR 2; TRXR2_HUMAN; TXNRD 2; Txnrd2; anti-TRXR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TRXR2 antibody detects endogenous levels of total TRXR2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	524
Applicable Applications for anti-TRXR2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TRXR2
Subcellular Location	Mitochondrion.
Tissue Specificity	Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according to PubMed:9923614, levels are low.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (93%), Bovine (93%), Horse (87%), Sheep (93%), Rabbit (93%), Dog (87%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA322045 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA322045 staining HT29 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of TRXR2 expression in HT29 cells

ADDITIONAL INFORMATION

Related Product Information for anti-TRXR2 antibody	Description: Maintains thioredoxin in a reduced state. Implicated in the defenses against oxidative stress. May play a role in redox-regulated cell signaling. Subunit Structure: Homodimer. Similarity: Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22035672
NCBI GeneID	10587
NCBI Accession #	NP_006431.2
NCBI GenBank Nucleotide #	NM_006440.4
UniProt Accession #	Q9NNW7; Q95840; Q96IJ2; Q9H2Z5; Q9NZV3; Q9NZV4; Q9P2Y0; Q9P2Y1; Q9UQU8
Molecular Weight	Observed: 56 kDa Predicted: 57 kDa
NCBI Official Full Name	thioredoxin reductase 2, mitochondrial isoform 1
NCBI Official Synonym Full Names	thioredoxin reductase 2
NCBI Official Symbol	TXNRD2
NCBI Official Synonym Symbols	TR; TR3; SELZ; GCCD5; TRXR2; TR-BETA
NCBI Protein Information	thioredoxin reductase 2, mitochondrial
UniProt Protein Name	Thioredoxin reductase 2, mitochondrial
UniProt Gene Name	TXNRD2
UniProt Synonym Gene Names	KIAA1652; TRXR2; SelZ

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.