Rabbit anti-Human Thioredoxin 2 Monoclonal Antibody | anti-TXN2 antibody

Recombinant Anti-Thioredoxin 2 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255591	**Rabbit**	**Human**	**Immunohistochemistry**

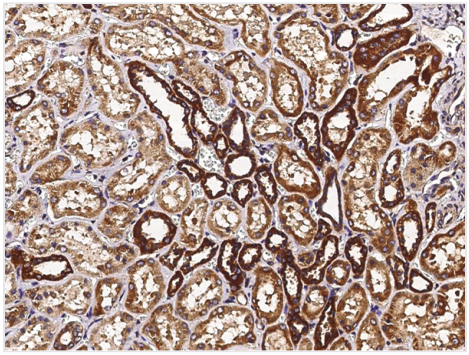
PRODUCT SYNONYMS

Thioredoxin 2; Monoclonal Antibody; Recombinant Anti-Thioredoxin 2 Antibody; Rabbit Monoclonal; Thioredoxin-2/TXN2 Antibody; Rabbit MAb; thioredoxin 2; Anti-MT-TRX Antibody; Anti-MTRX Antibody; Anti-RP5-1119A7. 13-005 Antibody; Anti-TRX2 Antibody; anti-TXN2 antibody

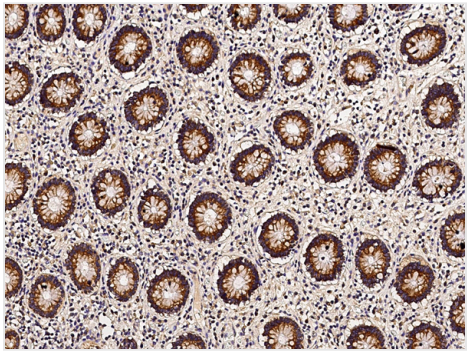
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	054
Specificity	Human Thioredoxin-2/TXN2
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-TXN2 antibody	IHC (Immunohistochemistry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Thioredoxin-2/TXN2 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Thioredoxin-2/TXN2 (rh Thioredoxin-2/TXN2).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
Immunochemical staining of human TXN2 in human kidney with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human TXN2 in human small intestine with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-TXN2 antibody	Thioredoxin-2, also known as TXN2, MTRX and TRX2, is a member of the thioredoxin family. Tryparedoxins (TXN) are thioredoxin-related proteins which, as trypanothione:peroxiredoxin oxidoreductases, constitute the trypanothione-dependent antioxidant defense and may also serve as substrates for ribonucleotide reductase in trypanosomatids. Thioredoxin-2/TXN2 contains one thioredoxin domain. It is widely expressed in adult (at protein level) and fetal tissues. Human Thioredoxin-2/TXN2 is a small redox protein important in cellular antioxidant defenses, as well as in the regulation of apoptosis. Thioredoxin-2/TXN2 has an anti-apoptotic function and plays an important role in the regulation of mitochondrial membrane potential. Thioredoxin-2/TXN2 could be involved in the resistance to anti-tumor agents. It possesses a dithiol-reducing activity. Thioredoxin-2/TXN2 plays an important role in protecting the mitochondria against oxidative stress and in sensitizing the cells to ROS-induced apoptosis. Mammalian Thioredoxin-2/TXN2 is a mitochondrial isoform of highly evolutionary conserved thioredoxins. Thioredoxins are small ubiquitous protein-disulfide oxidoreductases implicated in a large variety of biological functions.
References	Chen Y., et al., 2002, J. Biol. Chem. 277: 33242-8. Smeets A., et al., 2005, Protein Sci. 14: 2610-21. Wen, S. et al., 2009, Am J Med Genet A 149A (2): 155-60. Choudhary C., et al., 2009, Science 325: 834-40.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361403
NCBI GeneID	25828
NCBI Accession #	NP_036605.2
NCBI GenBank Nucleotide #	NM_012473.3
UniProt Accession #	Q99757; Q5JZA0; Q6FH60; Q9UH29
Molecular Weight	18,383 Da
NCBI Official Full Name	thioredoxin, mitochondrial
NCBI Official Synonym Full Names	thioredoxin 2
NCBI Official Symbol	TXN2
NCBI Official Synonym Symbols	MTRX; TRX2; MT-TRX
NCBI Protein Information	thioredoxin, mitochondrial; mitochondrial thioredoxin; thioredoxin-2
UniProt Protein Name	Thioredoxin, mitochondrial
UniProt Gene Name	**TXN2**
UniProt Synonym Gene Names	TRX2; MTRX; Mt-Trx

UniProt Entry Name	THIOM_HUMAN

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.

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Online datasheet: https://www.aaabiotech.com/monoclonal/thioredoxin-2-antibody-clone-054-immunohistochemistry-elisa/255591