Data Sheet (Cat.No.TMAY-00735)

Anti-Thioredoxin/TRX Antibody (2S987)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2S987
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human TXN in human colon with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to colonic gland. 2. Immunochemical staining of human TXN in human appendix with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to intestinal gland.
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human Thioredoxin / TXN protein (TMPY-02250)
Antigen Species:	Human
Synonyms:	thioredoxin;MGC61975;TRDX;TXN;TRX;DKFZp686B1993;RP11-427L11.1;TRX1

Research Background

Thioredoxin, also known as ATL-derived factor, Surface-associated sulphydryl protein, SASP and TXN, is a nucleus, cytoplasm and secreted protein that belongs to the thioredoxin family. Thioredoxins are proteins that act as antioxidants by facilitating the reduction of other proteins by cysteine thiol-disulfide exchange. Thioredoxins are found in nearly all known organisms and are essential for life in mammals. Thioredoxin / TXN participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. Thioredoxin / TXN plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Thioredoxin / TXN nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. Thioredoxin / TXN induces the FOS/JUN AP-1 DNA-binding activity in ionizing radiation (IR) cells through its oxidation/reduction status and stimulates AP-1 transcriptional activity.

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