Datasheet for ABIN6963928

anti-TXN antibody (Biotin)

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Overview

Quantity:	1 mg
Target:	TXN
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TXN antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Recombinant human Thioredoxin-1
Clone:	MT13X3
Isotype:	IgG1
Specificity:	Native and recombinant Thioredoxin-1
Cross-Reactivity (Details):	The antibody cross-reacts with Trx1 from cow. For quantification of human Trx1 in ELISA, samples should not contain bovine serum.
Purification:	Purified from in vitro cultures by protein G affinity chromatography.

Target Details

Target:	TXN
Alternative Name:	Thioredoxin1 (TXN Products)

Target Details

Gene ID:	7295
Pathways:	Carbohydrate Homeostasis, Cell RedoxHomeostasis

Application Details

Application Notes:	For quantification of Trx1 in solution e.g. cell culture supernatants and serum/ plasma using ELISA. MT13X3 is recommended as detection mAb in combination with coating mAb MT17R6 . MT13X3 is also suitable for Western blot.
Comment:	Biotinylated through reaction with a N-hydroxysuccinimide ester of biotin.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	supplied at 0.5 mg/mL in PBS with 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store product at 4-8°C or frozen at -20°C or below. Avoid repeated freezing/ thawing.
Expiry Date:	18 months

Publications

Product cited in:	Faghih, Rostami-Nejad, Amani, Sadeghi, Pourhoseingholi, Masotti, Zali: "Analysis of IL17A and IL21 Expression in the Small Intestine of Celiac Disease Patients and Correlation with Circulating Thioredoxin Level." in: **Genetic testing and molecular biomarkers**, Vol. 22, Issue 9, pp. 518-525, (2018) (PubMed). Mahmoudian, Khalilnezhad, Gharagozli, Amani et al.: "Thioredoxin-1, redox factor-1 and thioredoxin-interacting protein, mRNAs are differentially expressed in Multiple Sclerosis patients exposed and non-exposed to interferon and immunosuppressive ..." in: **Gene**, Vol. 634, pp. 29-36, (2017) (PubMed).

Reiser, Mathys, Curbo, Pannecouque, Noppen, Liekens, Engman, Lundberg, Balzarini, Karlsson: " The Cellular Thioredoxin-1/Thioredoxin Reductase-1 Driven Oxidoreduction Represents a Chemotherapeutic Target for HIV-1 Entry Inhibition." in: **PLoS ONE**, Vol. 11, Issue 1, pp. e0147773, (2016) (PubMed).

Lundberg, Curbo, Reiser, Masterman, Braesch-Andersen, Areström, Ahlborg: "Methodological aspects of ELISA analysis of thioredoxin 1 in human plasma and cerebrospinal fluid." in: **PLoS ONE**, Vol. 9, Issue 7, pp. e103554, (2015) (PubMed).