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TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP1336a

Specification

TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide - Product Information

Primary Accession O43396

TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide - Additional Information

Gene ID 9352

Other Names
Thioredoxin-like protein 1, 32 kDa thioredoxin-related protein, TXNL1, TRP32, TXL, TXNL

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1336a was selected from the N-term region of human TrxL. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide - Protein Information

Name TXNL1

Synonyms TRP32, TXL, TXNL

Function
Active thioredoxin with a redox potential of about -250 mV.

Cellular Location
Cytoplasm. Nucleus. Note=At least 85% of the cellular TXNL1 is proteasome-associated

Tissue Location
Ubiquitous.

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TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide - Images

TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide - Background

Thioredoxins are a group of small redox active proteins possessing a conserved active site sequence. TrxL (Thioredoxin like protein 1) has 2 distinct domains: an N terminal domain, which is 43% identical to human TXN, and a C terminal domain, which shows no homology to other proteins in the sequence databases. The active site sequence, located within the N terminal domain, is that of a thioredoxin like protein; compared to the active site sequence of TXN, it has a single amino acid substitution. Unlike other thioredoxin like proteins, TrxL does not serve as a substrate for thioredoxin reductase in an insulin assay.

TXNL1 (TRP32/TrxL) Antibody (N-term) Blocking peptide - References

Miranda-Vizuete, A., et al., DNA Seq. 10(6):419-424 (2000).Lee, K.K., et al., J. Biol. Chem. 273(30):19160-19166 (1998).Miranda-Vizuete, A., et al., Biochem. Biophys. Res. Commun. 243(1):284-288 (1998).