10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

TXNL1 (TRP32/TrxL) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1336b

Specification

TXNL1 (TRP32/TrxL) Antibody (C-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	O43396
Other Accession	Q920J4, Q8CDN6
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**32251**
Antigen Region	**256-289**

TXNL1 (TRP32/TrxL) Antibody (C-term) - Additional Information

Gene ID 9352

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

Target/Specificity
This TXNL1 (TRP32/TrxL) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 256-289 amino acids from the C-terminal region of human TXNL1 (TRP32/TrxL).

Dilution
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TXNL1 (TRP32/TrxL) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TXNL1 (TRP32/TrxL) Antibody (C-term) - Protein Information

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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

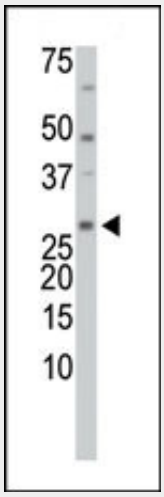
Tissue Location
Ubiquitous.

TXNL1 (TRP32/TrxL) Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TXNL1 (TRP32/TrxL) Antibody (C-term) - Images



The anti-TrxL Pab (Cat. #AP1336b) is used in Western blot to detect TrxL in HL-60 cell lysate.

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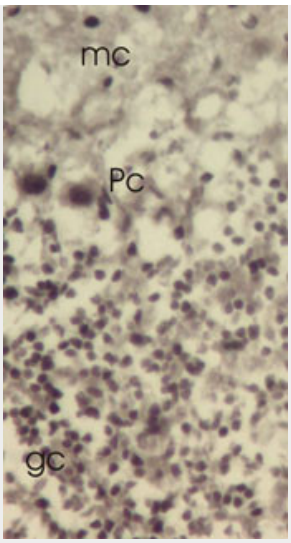

Mouse cerebellar cortex showing molecular cell layer (mc), Purkinje cells (Pc) and granular cell layer. Trxl-1 antibody Cat # AP1336b gives strong nuclear labeling in Purkinje cells and granular cells with lower cytoplasmic staining. The results correspond precisely to TrxL-1 mRNA expression shown with in situ hybridization (JimÃ©nez A et al. FEBS Lett. 2006, 580(3):960-7) and could be abolished with peptide used for immunization (Blocking peptide, Cat # BP1336b). The fixation was 4% paraformaldehyde perfusion (4mins) and 60 mins immersion. Staining was done in frozen sections with Vector Elite kit and nickel intensified DAB as a chromogen. Data courtesy of Prof. Markku Pelto-Huikko, Department of Developmental Biology, Medical School,Tampere University, Finland.

TXNL1 (TRP32/TrxL) Antibody (C-term) - 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 (C-term) - References

Miranda-Vizuete, A., et al., Biochem. Biophys. Res. Commun. 243: 284-288 (1998).