

**TXNL1 (TRP32/TrxL) Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1336b****Specification**

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

Application	WB, IHC-P,E
Primary Accession	<a href="#">O43396</a>
Other Accession	<a href="#">O920J4</a> , <a href="#">O8CDN6</a>
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**

WB~~1:1000

IHC-P~~1:50~100

**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****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**

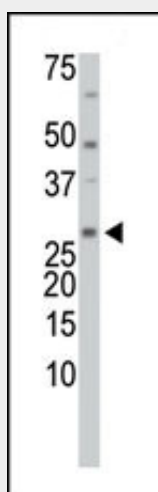
Ubiquitous.

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

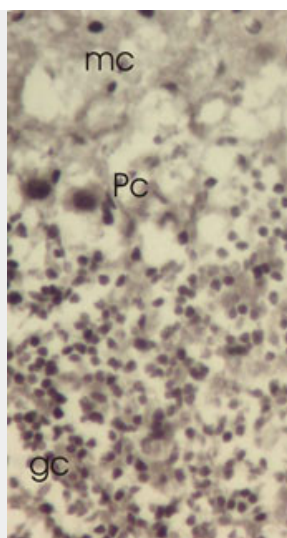
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.



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 (Jiménez 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 Peltö-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-Vizuite, A., et al., Biochem. Biophys. Res. Commun. 243: 284-288 (1998).