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# anti-TXNL1 antibody (C-Term, Trp32)

2 Images



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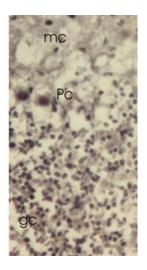
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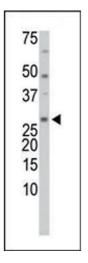
Quantity:	400 μL
Target:	TXNL1
Binding Specificity:	AA 256-289, C-Term, Trp32
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TXNL1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	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).
Clone:	RB5394
Isotype:	lg Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by
	dialysis against PBS.
Target Details	

Target: TXNL1

## **Target Details**

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Alternative Name:	TXNL1 (/TrxL) (TXNL1 Products)
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.
Gene ID:	9352
NCBI Accession:	NP_004777
UniProt:	O43396
Pathways:	Cell RedoxHomeostasis
Application Details	
Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small
	aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months





#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Mouse cerebellar cortex showing molecular cell layer (mc), Purkinje cells (Pc) and granular cell layer. Trxl-1 antibody Cat (ABIN388135 and ABIN2846378) 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 (JimA@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 (4 mins) 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.

### Western Blotting

**Image 2.** The anti-TrxL Pab (ABIN388135 and ABIN2846378) is used in Western blot to detect TrxL in HL-60 cell lysate.