

# TXNL2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12099a

## Product Information

---

<b>Application</b>	WB, FC, E
<b>Primary Accession</b>	<a href="#">Q76003</a>
<b>Other Accession</b>	<a href="#">Q58DA7</a> , <a href="#">NP_006532.2</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB20866
<b>Calculated MW</b>	37432
<b>Antigen Region</b>	81-110

## Additional Information

---

<b>Gene ID</b>	10539
<b>Other Names</b>	Glutaredoxin-3, PKC-interacting cousin of thioredoxin, PICOT, PKC-theta-interacting protein, PKCq-interacting protein, Thioredoxin-like protein 2, GLRX3, PICOT, TXNL2
<b>Target/Specificity</b>	This TXNL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-110 amino acids from the N-terminal region of human TXNL2.
<b>Dilution</b>	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	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.
<b>Precautions</b>	TXNL2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	GLRX3
<b>Synonyms</b>	PICOT {ECO:0000303   PubMed:10636891}, TXN

<b>Function</b>	Together with BOLA2, acts as a cytosolic iron-sulfur (Fe-S) cluster assembly factor that facilitates [2Fe-2S] cluster insertion into a subset of cytosolic proteins (PubMed: <a href="#">26613676</a> , PubMed: <a href="#">27519415</a> ). Acts as a critical negative regulator of cardiac hypertrophy and a positive inotropic regulator (By similarity). Required for hemoglobin maturation (PubMed: <a href="#">23615448</a> ). Does not possess any thioredoxin activity since it lacks the conserved motif that is essential for catalytic activity.
<b>Cellular Location</b>	Cytoplasm, cytosol. Cytoplasm, cell cortex. Cytoplasm, myofibril, sarcomere, Z line {ECO:0000250 UniProtKB:Q9CQM9}. Note=Under the plasma membrane (By similarity). After PMA stimulation, GLRX3 and PRKCQ/PKC-theta translocate to a more extended submembrane area (By similarity). In the Z line, found associated with CSRP3 (By similarity). {ECO:0000250 UniProtKB:Q9CQM9}
<b>Tissue Location</b>	Expressed in heart, spleen, testis and, to a lower extent, in thymus and peripheral blood leukocytes. Weakly expressed in lung, placenta, colon and small intestine

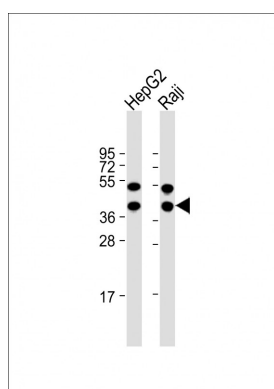
## Background

GLRX3 is a critical negative regulator of cardiac hypertrophy and a positive inotropic regulator (By similarity). May play a role in regulating the function of the thioredoxin system. Does not possess any thioredoxin activity since it lacks the conserved motif that is essential for catalytic activity.

## References

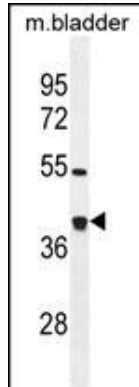
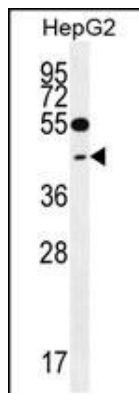
Ohayon, A., et al. J. Histochem. Cytochem. 58(9):799-806(2010)  
Haunhorst, P., et al. Biochem. Biophys. Res. Commun. 394(2):372-376(2010)  
Ohayon, A., et al. J Immunotoxicol 7(1):8-14(2010)  
Cha, M.K., et al. Cancer Epidemiol 33 (3-4), 281-287 (2009) :  
Roeske, D., et al. Mol. Psychiatry (2009) In press :

## Images

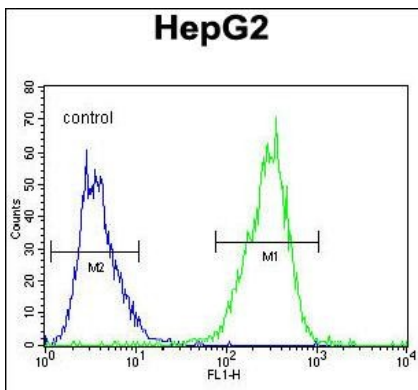


All lanes : Anti-TXNL2 Antibody (N-term) at 1:1000 dilution  
Lane 1: HepG2 whole cell lysate Lane 2: Raji whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

TXNL2 Antibody (N-term) (Cat. #AP12099a) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the TXNL2 antibody detected the TXNL2 protein (arrow).



TXNL2 Antibody (N-term) (Cat. #AP12099a) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the TXNL2 antibody detected the TXNL2 protein (arrow).



TXNL2 Antibody (N-term) (Cat. #AP12099a) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.