

TXNL2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12099a

Specification

TXNL2 Antibody (N-term) - Product Information

Application	FC, WB,E
Primary Accession	O76003
Other Accession	Q58DA7 , NP_006532.2
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	81-110

TXNL2 Antibody (N-term) - Additional Information

Gene ID 10539

Other Names

Glutaredoxin-3, PKC-interacting cousin of thioredoxin, PICOT, PKC-theta-interacting protein, PKCq-interacting protein, Thioredoxin-like protein 2, GLRX3, PICOT, TXNL2

Target/Specificity

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.

Dilution

FC~~1:10~50

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 purified through a protein A column, followed by peptide affinity purification.

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

TXNL2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TXNL2 Antibody (N-term) - Protein Information

Name GLRX3

Synonyms PICOT {ECO:0000303|PubMed:10636891}, TXN

Function 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:[26613676](#), PubMed:[27519415](#)). Acts as a critical negative regulator of cardiac hypertrophy and a positive inotropic regulator (By similarity). Required for hemoglobin maturation (PubMed:[23615448](#)). Does not possess any thymoredoxin activity since it lacks the conserved motif that is essential for catalytic activity.

Cellular Location

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}

Tissue Location

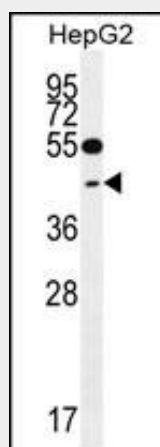
Expressed in heart, spleen, testis and, to a lower extent, in thymus and peripheral blood leukocytes. Weakly expressed in lung, placenta, colon and small intestine

TXNL2 Antibody (N-term) - Protocols

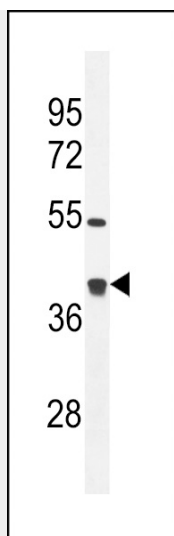
Provided below are standard protocols that you may find useful for product applications.

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

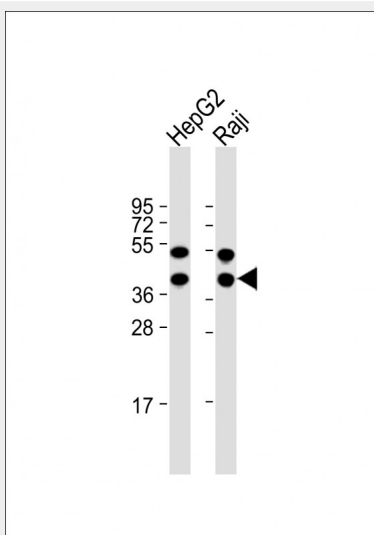
TXNL2 Antibody (N-term) - Images



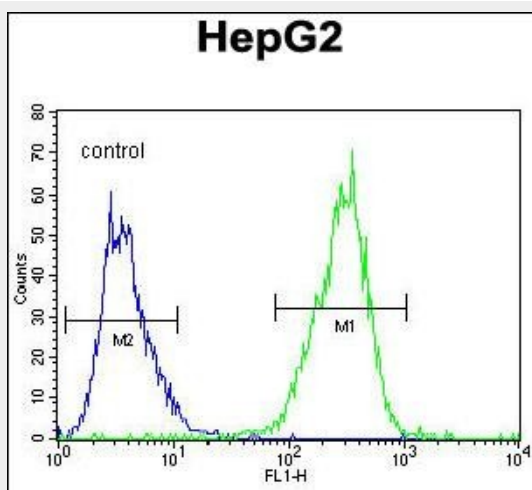
TXNL2 Antibody (N-term) (Cat. #AP12099a) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the TXNL2 antibody detected the TXNL2 protein (arrow).



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).



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) 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.

TXNL2 Antibody (N-term) - 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.

TXNL2 Antibody (N-term) - 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 :