TXNL2 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	TXNL2 (GLRX3), Blocking Peptide
Full Product Name	TXNL2 Antibody (N-term) Blocking peptide
Product Gene Name	GLRX3 blocking peptide
Product Synonym Gene Name	PICOT; TXNL2
Product Synonym Names	Glutaredoxin-3; PKC-interacting cousin of thioredoxin; PICOT; PKC-theta-interacting protein; PKCq-interacting protein; Thioredoxin-like protein 2; GLRX3; PICOT; TXNL2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TXNL2 peptide (MBS9218860) is used for blocking the activity of TXNL2 antibody (MBS9206101)
Molecular Weight	37,432 Da
OMIM	612754
Cellular Location	Cytoplasm, cell cortex. Cytoplasm, myofibril, sarcomere, Z line. Note: Under the plasma membrane. After PMA stimulation, GLRX3 and PRKCQ/PKC-theta translocate to a more extended submembrane area. In the Z line, found associated with CSRP3 (By similarity).
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
Related Product Information for GLRX3 blocking peptide	Critical negative regulator of cardiac hypertrophy and a positive inotropic regulator (By similarity). Crucial regulator of cellular iron homeostasis and hemoglobin maturation. May play a role in regulating the function of the thioredoxin system. Does not posses any thyoredoxin activity since it lacks the conserved motif that is essential for catalytic activity.
Other Notes	Small volumes of GLRX3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GLRX3 purchase	MBS9218860 is a blocking peptide targeting GLRX3. Also known as TXNL2 Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLRX3. It may not necessarily be applicable to this product.

NCBI GI #	37087933
NCBI GeneID	10539
NCBI Accession #	O76003.2
UniProt Primary Accession #	O76003
UniProt Secondary Accession #	Q5JV01; Q96CE0; Q9P1B0; Q9P1B1; B3KMP7; B3KMQ5; D3DRG2
UniProt Related Accession #	O76003
NCBI Official Full Name	Glutaredoxin-3
NCBI Official Synonym Full Names	glutaredoxin 3

NCBI Official Symbol	GLRX3
NCBI Official Synonym Symbols	GRX3; GRX4; GLRX4; PICOT; TXNL2; TXNL3
UniProt Protein Name	Glutaredoxin-3
UniProt Synonym Protein Names	PKC-interacting cousin of thioredoxin; PICOT; PKC-theta-interacting protein; PKCq-interacting protein; Thioredoxin-like protein 2
Protein Family	Glutaredoxin
UniProt Gene Name	GLRX3
UniProt Synonym Gene Names	PICOT; TXNL2; PICOT; PKCq-interacting protein
UniProt Entry Name	GLRX3_HUMAN
NCBI Protein Information	glutaredoxin-3
NCBI Summary for GLRX3	This gene encodes a member of the glutaredoxin family. Glutaredoxins are oxidoreductase enzymes that reduce a variety of substrates using glutathione as a cofactor. The encoded protein binds to and modulates the function of protein kinase C theta. The encoded protein may also inhibit apoptosis and play a role in cellular growth, and the expression of this gene may be a marker for cancer. Pseudogenes of this gene are located on the short arm of chromosomes 6 and 9. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2010]
UniProt Comments for GLRX3	GLRX3: Critical negative regulator of cardiac hypertrophy and a positive inotropic regulator. May play a role in regulating the function of the thioredoxin system. Does not posses any thyoredoxin activity since it lacks the conserved motif that is essential for catalytic activity. Protein type: Oxidoreductase Chromosomal Location of Human Ortholog: 10q26 Molecular Function: protein binding Biological Process: regulation of the force of heart contraction
Research Articles on GLRX3	**1.** findings provide novel insights into the regulation of Grx3, which is crucial for cell survival against environmental insults
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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