

GLRX2 Antibody (C-term C153) Blocking peptide
Synthetic peptide
Catalog # BP12642b**Specification**

GLRX2 Antibody (C-term C153) Blocking peptide - Product InformationPrimary Accession [Q9NS18](#)**GLRX2 Antibody (C-term C153) Blocking peptide - Additional Information****Gene ID** 51022**Other Names**

Glutaredoxin-2, mitochondrial, GLRX2, GRX2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GLRX2 Antibody (C-term C153) Blocking peptide - Protein Information**Name** GLRX2**Synonyms** GRX2**Function**

Glutathione-dependent oxidoreductase that facilitates the maintenance of mitochondrial redox homeostasis upon induction of apoptosis by oxidative stress. Involved in response to hydrogen peroxide and regulation of apoptosis caused by oxidative stress. Acts as a very efficient catalyst of monothiol reactions because of its high affinity for protein glutathione-mixed disulfides. Can receive electrons not only from glutathione (GSH), but also from thioredoxin reductase supporting both monothiol and dithiol reactions. Efficiently catalyzes both glutathionylation and deglutathionylation of mitochondrial complex I, which in turn regulates the superoxide production by the complex. Overexpression decreases the susceptibility to apoptosis and prevents loss of cardiolipin and cytochrome c release.

Cellular Location

[Isoform 1]: Mitochondrion.

Tissue Location

Widely expressed. Expressed in brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta and lung. Not expressed in peripheral blood leukocytes

GLRX2 Antibody (C-term C153) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GLRX2 Antibody (C-term C153) Blocking peptide - Images**GLRX2 Antibody (C-term C153) Blocking peptide - Background**

Glutaredoxins (e.g., GLRX; MIM 600443) are a family of glutathione-dependent hydrogen donors that participate in a variety of cellular redox reactions.

GLRX2 Antibody (C-term C153) Blocking peptide - References

Wu, H., et al. Biochim. Biophys. Acta 1797(10):1705-1715(2010) Mitra, S., et al. Biochemistry 48(18):3813-3815(2009) Gallogly, M.M., et al. Biochemistry 47(42):11144-11157(2008) Nagy, N., et al. J. Mol. Cell. Cardiol. 44(2):252-260(2008) Karunakaran, S., et al. Brain Res. 1185, 8-17 (2007) :