

**GLRX2 Antibody (C-term T135) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7301b****Specification**

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**GLRX2 Antibody (C-term T135) Blocking Peptide - Product Information**Primary Accession [Q9NS18](#)**GLRX2 Antibody (C-term T135) Blocking Peptide - Additional Information****Gene ID** 51022**Other Names**

Glutaredoxin-2, mitochondrial, GLRX2, GRX2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7301b](/products/AP7301b) was selected from the C-term region of human GLRX2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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 T135) 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 T135) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GLRX2 Antibody (C-term T135) Blocking Peptide - Images****GLRX2 Antibody (C-term T135) Blocking Peptide - Background**

GLRX2 are a family of glutathione-dependent hydrogen donors that participate in a variety of cellular redox reactions.

**GLRX2 Antibody (C-term T135) Blocking Peptide - References**

Lundberg M., Johansson C. J. Biol. Chem. 276:26269-26275(2001) Gladyshev V.N., Liu A. J. Biol. Chem. 276:30374-30380(2001) Lillig C.H. Proc. Natl. Acad. Sci. U.S.A. 101:13227-13232(2004)