

GLRX2 Polyclonal Antibody

Catalog No: #42684

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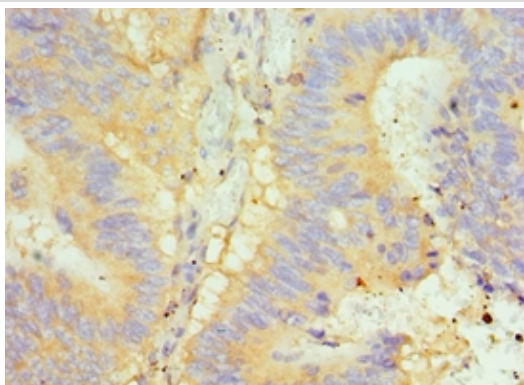
Description

Product Name	GLRX2 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen Affinity Purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total GLRX2 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Glutaredoxin-2, mitochondrial protein (1-124aa)
Target Name	GLRX2
Other Names	GLRX2, GRX2, CGI-133
Accession No.	Swiss-Prot#: Q9NS18
Uniprot	Q9NS18
GeneID	51022;
Concentration	1.0mg/mL
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage	Store at -20°C

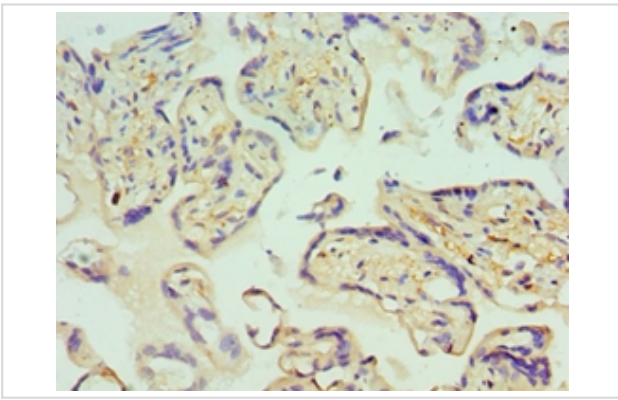
Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of paraffin-embedded human colon cancer using #42684 at dilution of 1:100.



Immunohistochemical analysis of paraffin-embedded human placenta using #42684 at dilution of 1:100.

Background

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.

References

[1]"Reversible sequestration of active site cysteines in a 2Fe-2S-bridged dimer provides a mechanism for glutaredoxin 2 regulation in human mitochondria." Johansson C., Kavanagh K.L., Gileadi O., Oppermann U.J. *Biol. Chem.* 282:3077-3082(2007). [2]"Solution structure of RSGI RUH-044, an N-terminal 2 domain of glutaredoxin 2 from human cDNA." RIKEN structural genomics initiative (RSGI)Submitted (NOV-2005). [3]"Characterization of human glutaredoxin 2 as iron-sulfur protein: a possible role as redox sensor." Lillig C.H., Berndt C., Vergnolle O., Loenn M.E., Hudemann C., Bill E., Holmgren A. *Proc. Natl. Acad. Sci. U.S.A.* 102:8168-8173(2005).

Note: This product is for in vitro research use only