

Datasheet for ABIN2787395

anti-Glutaredoxin 2 antibody (Middle Region)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Glutaredoxin 2 (GRX2)
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Guinea Pig, Horse, Rabbit, Cow, Dog, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutaredoxin 2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human GLRX2
Sequence:	NVNYKVVELD LLEYGNQFQD ALYKMTGERT VPRIFVNGTF IGGATDTHRL H
Predicted Reactivity:	Cow: 86%, Dog: 86%, Guinea Pig: 86%, Horse: 86%, Human: 100%, Mouse: 93%, Rabbit: 86%, Rat: 86%, Sheep: 86%
Characteristics:	This is a rabbit polyclonal antibody against GLRX2. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	Glutaredoxin 2 (GRX2)
Alternative Name:	GLRX2 (GRX2 Products)

Target Details

Background:	<p>GLRX2 is a glutathione-dependent oxidoreductase that facilitates the maintenance of mitochondrial redox homeostasis upon induction of apoptosis by oxidative stress. GLRX2 is involved in response to hydrogen peroxide and regulation of apoptosis caused by oxidative stress. GLRX2 acts as a very efficient catalyst of monothiol reactions because of its high affinity for protein glutathione-mixed disulfides. GLRX2 can receive electrons not only from glutathione (GSH), but also from thioredoxin reductase supporting both monothiol and dithiol reactions. GLRX2 efficiently catalyzes both glutathionylation and deglutathionylation of mitochondrial complex I, which in turn regulates the superoxide production by the complex. Overexpression of GLRX2 decreases the susceptibility to apoptosis and prevents loss of cardiolipin and cytochrome c release.</p> <p>Alias Symbols: GRX2, bA101E13.1, CGI-133</p> <p>Protein Interaction Partner: BAG3, TXNRD1,</p> <p>Protein Size: 164</p>
Molecular Weight:	18 kDa
Gene ID:	51022
NCBI Accession:	NM_197962 , NP_932066
UniProt:	Q9NS18
Pathways:	Cell RedoxHomeostasis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 164 AA
Restrictions:	For Research Use only

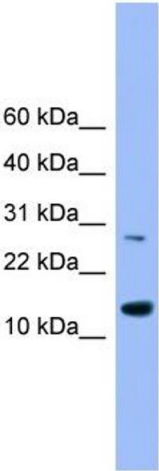
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



60 kDa
40 kDa
31 kDa
22 kDa
10 kDa

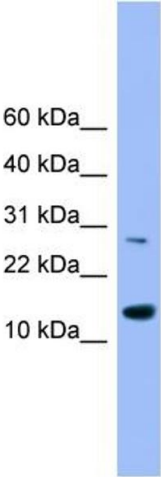
Western Blotting

Image 1. WB Suggested Anti-GLRX2 Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: Human heart



60 kDa
40 kDa
31 kDa
22 kDa
10 kDa

Rabbit Anti-GLRX2 Antibody
Catalog Number: ARP57792
Lot Number: QC30000
Lane: Fetal Heart Lysate

Antibody Titration: 1.0µg/ml
Gel Concentration: 10-20%

Western Blotting

Image 2. WB Suggested Anti-GLRX2

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:1562500

Positive Control: Human heart