

Datasheet for ABIN1387599  
**anti-Sulfiredoxin 1 antibody (AA 45-137)**

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## Overview

Quantity:	100 µL
Target:	Sulfiredoxin 1 (SRX1)
Binding Specificity:	AA 45-137
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sulfiredoxin 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SRXN1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	Sulfiredoxin 1 (SRX1)
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## Target Details

Alternative Name:	SRXN1 ( <a href="#">SRX1 Products</a> )
Background:	<p>Synonyms: SRX, Npn3, SRX1, C20orf139, Sulfiredoxin-1, SRXN1</p> <p>Background: Contributes to oxidative stress resistance by reducing cysteine-sulfinic acid formed under exposure to oxidants in the peroxiredoxins PRDX1, PRDX2, PRDX3 and PRDX4. Does not act on PRDX5 or PRDX6. May catalyze the reduction in a multi-step process by acting both as a specific phosphotransferase and a thioltransferase.</p>
Gene ID:	140809
UniProt:	<a href="#">Q9BYN0</a>

## Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

## Handling

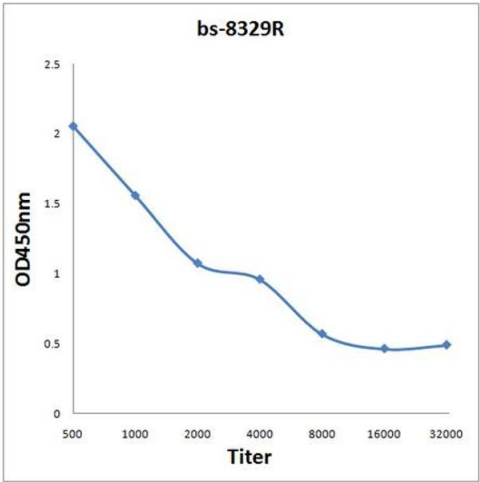
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in: Zhang, He, Guo, Li, Wang, Yang, Cui: "Sulfiredoxin-1 protects against simulated ischaemia/reperfusion injury in cardiomyocyte by inhibiting PI3K/AKT-regulated mitochondrial apoptotic pathways." in: **Bioscience reports**, Vol. 36, Issue 2, (2016) ([PubMed](#)).

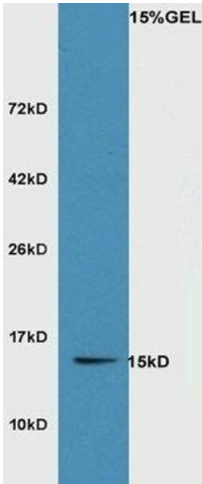
Zhou, Zhou, Yu, Wu, Chen, Zhao et al.: "Sulfiredoxin-1 exerts anti-apoptotic and neuroprotective effects against oxidative stress-induced injury in rat cortical astrocytes following exposure to oxygen-glucose deprivation and hydrogen ..." in: **International journal of molecular medicine**, Vol. 36, Issue 1, pp. 43-52, (2015) ([PubMed](#)).

Images



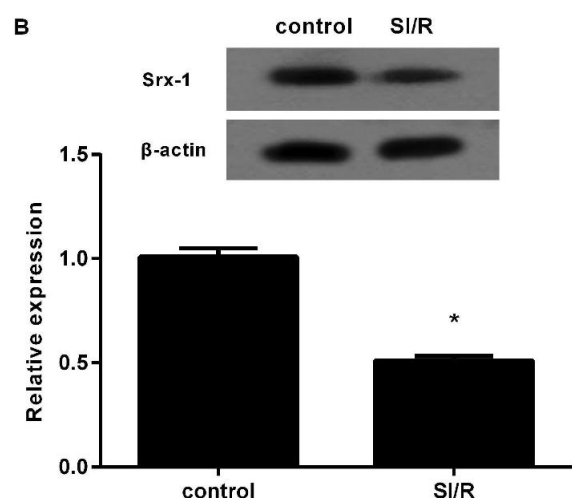
**ELISA**

**Image 1.** Antigen: 0.2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450



**Western Blotting**

**Image 2.** Mouse brain lysates probed with Anti SRXN1 Polyclonal Antibody, Unconjugated at 1:3000 for 90 min at 37°C.



**Western Blotting**

**Image 3.** Down-regulation of Srx-1 in H9c2 cardiomyocytes under SI/R treatmentThe H9c2 cells were exposed to hypoxia for 10 h and then reoxygenated for 3 h. (A) The mRNA levels were detected by qRT-PCR. (B) The protein expression of Srx-1 was determined by western blotting. \*P<0.05 compared with control groups. - figure provided by CiteAb. Source: PMID26992405

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN1387599.