Datasheet for ABIN190746

anti-Thioredoxin Reductase antibody (N-Term)

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Overview

Quantity:	200 µg
Target:	Thioredoxin Reductase (TrxR)
Binding Specificity:	N-Term
Reactivity:	Chlamydomonas reinhardtii
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH-conjugated peptide derived from N-terminal domain of NtrC of Chlamydomonas reinhardtii A8HNQ7
Cross-Reactivity (Details):	Not reactive in: Arabidopsis thaliana
Predicted Reactivity:	Chlamydia sp. Ostreococcus luminarius, Physcomitrella patens, Synechococcus sp.
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 55.3 kDa
Purification:	serum

Target Details

Target:	Thioredoxin Reductase (TrxR)
Alternative Name:	Thioredoxin reductase (TR/TRxR) (NtrC) (TrxR Products)
Background:	Thioredoxin Reductase (TR, TrxR) is the only known enzyme (EC 1.8.1.9) which is reducing

Target Details

	thoredoxin (Trx). Activity of thoredoxin is essential for growth and survival of the cell. There seem to be one isoform of NtrC protein in Arabidopsis which includes an N-terminal reductase domain and a C-terminal domain related to thioredoxin proteins. Arabidopsis and Chlmydomonas NtrC proteins are ca. 568 amino acids long, but include ca. 80 amino acid signal peptides, for mature protein size of ca. 488 amino acids.
Molecular Weight:	55.3 kDa
UniProt:	A8HNQ7

Application Details

Application Notes:	1 : 500 with standard ECL (WB)
Comment:	antibody will react with long NtrC of Chlamydomonas reinhardtii proteins and shorter NtrA-type rpoteins, which would be distinguished by migration size.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 100 µL of sterile water.
Buffer:	PBS pH 7.4
Handling Advice:	Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes. Once reconstituted make aliquots to avoid repreated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	store lyophilized/reconstituted at -20°C, once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.