

## Thioredoxin Conjugated Antibody

Catalog No: #C49404



Package Size: #C49404-AF350 100ul #C49404-AF405 100ul #C49404-AF488 100ul  
 #C49404-AF555 100ul #C49404-AF594 100ul #C49404-AF647 100ul  
 #C49404-AF680 100ul #C49404-AF750 100ul #C49404-Biotin 100ul

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## Description

Product Name	Thioredoxin Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	ADF antibody ATL derived factor antibody ATL-derived factor antibody DKFZp686B1993 antibody MGC61975 antibody SASP antibody Surface associated sulphhydryl protein antibody Surface-associated sulphhydryl protein antibody testicular tissue protein Li 199 antibody THIO_HUMAN antibody Thioredoxin antibody thioredoxin delta 3 antibody TRDX antibody TRX 1 antibody Trx antibody TRX1 antibody TXN antibody TXN delta 3 antibody TXN protein antibody zgc:92903 antibody
Accession No.	Swiss-Prot#:P10599
Uniprot	P10599
GeneID	7295;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	12 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

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Thioredoxin (Trx) is a redox protein that is found in several species, such as bacteria, plants and mammals, and contains a conserved active site, consisting of Trp-Cys-Gly-Pro-Cys. Trx has several biological functions. It acts as a hydrogen donor for ribonucleotide reductase, which is critical for DNA synthesis, and modulates the DNA-binding activity of several transcription factors, including NFkB, AP-1, p53, TFIIIC and glucocorticoid receptor. Trx also stimulates cell growth, is an inhibitor of apoptosis and plays a role in the protection against oxidative stress. Drugs that inhibit Trx have antitumor activity, suggesting that Trx is involved in a variety of human diseases, including cancer. TrxR is a ubiquitously expressed flavoprotein that catalyzes the NADPH-dependent reduction of Trx as well as several other oxidized cellular components.

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Note: This product is for in vitro research use only