



# Mouse Anti-Human TRX1/Thioredoxin-1 monoclonal antibody, clone 24Y4 [Biotin] (CABT-L6570Z)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	This monoclonal antibody enables specific detection of human Thioredoxin-1 (Trx1) in ELISA and Western blot.
<b>Specificity</b>	Native and recombinant human Thioredoxin-1 (Trx1). The antibody detects reduced and oxidized forms of Trx1. Cross-reacts with Trx1 from cow.
<b>Immunogen</b>	Recombinant human Thioredoxin-1
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	24Y4
<b>Purification</b>	Protein G purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	WB, ELISA, ELISA(Det) We recommend the following for sandwich ELISA (Capture - Detection): CABT-L6569Z - CABT-L6570Z Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	250ug
<b>Buffer</b>	PBS with 0.02% sodium azide.
<b>Preservative</b>	0.02% sodium azide
<b>Storage</b>	Store product at 4-8°C or frozen at -20°C or below. Avoid repeated freezing/thawing
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	Thioredoxin-1 (Trx1) is an oxidoreductase protein and thus may act as an anti-oxidant by facilitating the reduction of cysteine residues of other proteins. Besides keeping the intracellular milieu in a reduced state and being involved in the defence against oxidative stress, thioredoxin-1 specifically regulates several transcription factors and receptors. Increased plasma levels of thioredoxin-1 has been associated with several psychiatric disorders.
<b>Keywords</b>	Thioredoxin-1, Trx1, TRDX, TRX, TRX1, Trx80