

## Thioredoxin 1 monoclonal antibody

Catalog: MB66858

Host: Mouse

Reactivity: Human

### BackGround:

Thioredoxin is a small redox protein found in many eukaryotes and prokaryotes. A pair of cysteines within a highly conserved, active site sequence can be oxidized to form a disulfide bond that is then reduced by thioredoxin reductase. Multiple forms of thioredoxin have been identified, including cytosolic thioredoxin 1 (TRX1) and mitochondrial thioredoxin 2 (TRX2). Thioredoxin participates in many cellular processes including redox signaling, response to oxidative stress, and protein reduction. A potential role of thioredoxin in human disorders such as cancer, aging, and heart disease is currently under investigation. Thioredoxin can play a key role in cancer progression, because it acts as a negative regulator of the proapoptotic kinase ASK1. Changes in thioredoxin expression have been associated with meningococcal septic shock and acute lung injury.

### Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 12 kDa

### Swiss-Prot:

P10599

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000)

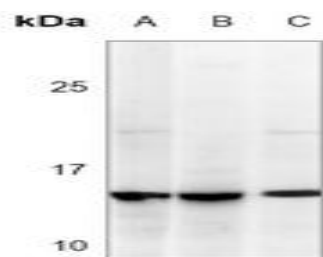
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Recognizes endogenous levels of Thioredoxin 1 protein.

### DATA:



Western blot analysis of Thioredoxin 1 expression in SHSY5Y (A), A431 (B), HeLa (C) whole cell lysates.

### Note:

For research use only, not for use in diagnostic procedure.

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