

## ABG83463: Thioredoxin Reductase Assay Kit (Colorimetric)

### Description

**Detection method :** Colorimetric

**Sample type :** Urine, Cell culture extracts, Other biological fluids, Tissue Extracts

**Assay type :** Enzyme activity

**Assay time :** 0h 40m

**Product overview :** Thioredoxin Reductase Assay Kit is a specific assay for detecting Thioredoxin Reductase (TrxR) activity.

In the thioredoxin reductase assay protocol, TrxR catalyzes the reduction of DTNB to TNB<sup>2-</sup> in the presence of NADPH, which generates a strong yellow color (OD<sub>max</sub> = 412 nm).

Other enzymes present in crude biological samples such as glutathione reductase and glutathione peroxidase can also reduce DTNB. In order to measure TrxR-only activity, a TrxR specific inhibitor is used in a separate reaction to determine TrxR specific activity. The difference between total DTNB reduction in the sample and DTNB reduction in the sample in presence of TrxR inhibitor is the value of specific TrxR activity in the sample.

### Product Info

**Amount :** 100 Tests

**Storage condition :** Store at -20°C. Please refer to protocols.