

TrxR2 Mouse mAb

CatalogNo: YM1332

| Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- WB

MW

- 56kD (Observed)

| Recommended Dilution Ratios

WB 1:1000

| Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Monoclonal

| Immunogen Information

Immunogen Purified recombinant human TXNRD2 protein fragments expressed in E.coli.

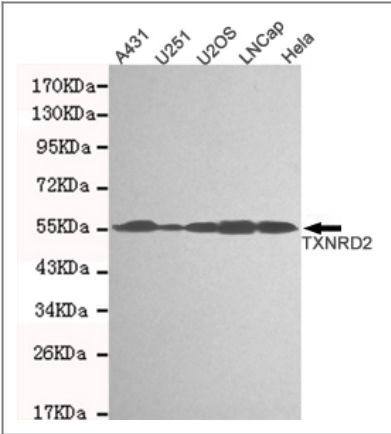
Specificity This antibody detects endogenous levels of TXNRD2 and does not cross-react with related proteins.

| Target Information

Gene name TXNRD2

Protein Name	Thioredoxin reductase 2 mitochondrial		
	Organism	Gene ID	UniProt ID
	Human	10587 ;	Q9NNW7 ;
Cellular Localization	Mitochondrion .		
Tissue specificity	Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according to PubMed:9923614, levels are low. High expression is observed in the adrenal cortex (PubMed:24601690).		
Function	Catalytic activity:Thioredoxin + NADP(+) = thioredoxin disulfide + NADPH.,cofactor:FAD.,Function:Maintains thioredoxin in a reduced state. Implicated in the defenses against oxidative stress. May play a role in redox-regulated cell signaling.,miscellaneous:The active site is a redox-active disulfide bond. The selenocysteine residue is essential for enzymatic activity.,sequence Caution:Translated as Sec.,similarity:Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family.,subunit:Homodimer.,tissue specificity:Highly expressed in the prostate, ovary, liver, testis, uterus, colon and small intestine. Intermediate levels in brain, skeletal muscle, heart and spleen. Low levels in placenta, pancreas, thymus and peripheral blood leukocytes. According to PubMed:10608886, high levels in kidney, whereas according to PubMed:9923614 levels are low.,		

| Validation Data



Western blot detection of TXNRD2 in A431,U251,U2OS,Lncap and Hela cell lysates and using TXNRD2 mouse mAb (1:1000 diluted).Predicted band size: 56KDa.Observed band size: 56KDa.

| Contact information

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TrxR2 Mouse mAb

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