

Thioredoxin Recombinant antibody

Catalog Number: 82765-1-RR

Basic Information

Catalog Number: 82765-1-RR	GenBank Accession Number: BC003377	Purification Method: Protein A purification
Size: 500 ug/ml	GeneID (NCBI): 7295	CloneNo.: 7G10
Source: Rabbit	UNIPROT ID: P10599	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
Isotype: IgG	Full Name: thioredoxin	
Immunogen Catalog Number: AG6989	Calculated MW: 12 kDa Observed MW: 12 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : A549 cells, HeLa cells, HepG2 cells, K-562 cells,
MCF-7 cells

IHC : human stomach tissue,

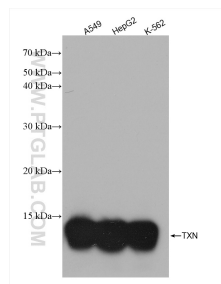
Background Information

TXN, TRDX, TRX, TRX1, ADF and SASP, belongs to the thioredoxin family. It participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. TXN plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. TXN induces the FOS/JUN AP-1 DNA-binding activity in ionizing radiation (IR) cells through its oxidation/reduction status and stimulates AP-1 transcriptional activity.

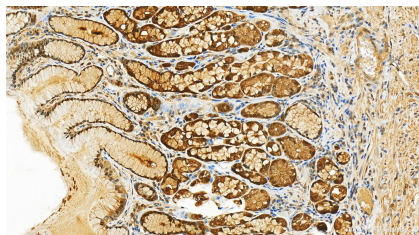
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

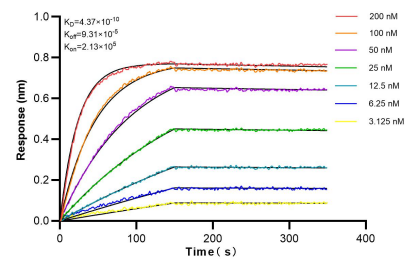
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82765-1-RR (Thioredoxin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 82765-1-RR (Thioredoxin antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82765-1-RR against Human Thioredoxin were performed. The affinity constant is 0.437 nM.