

Product Name: Thioredoxin Rabbit Polyclonal Antibody
Catalog #: APRab18883



Summary

Production Name	Thioredoxin Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	TXN TRDX TRX TRX1
Alternative Names	Thioredoxin (Trx;ATL-derived factor;ADF;Surface-associated sulphydryl protein;SASP)
Gene ID	7295.0
SwissProt ID	P10599.Synthesized peptide derived from human Thioredoxin. at AA range: 52-101

Application

Dilution Ratio	IHC-p: 100-300.WB 1:500-2000, ELISA 1:10000-20000.
Molecular Weight	12kD

Background

The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is

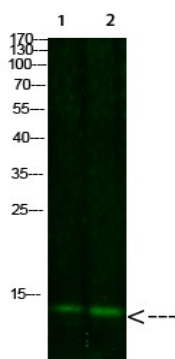
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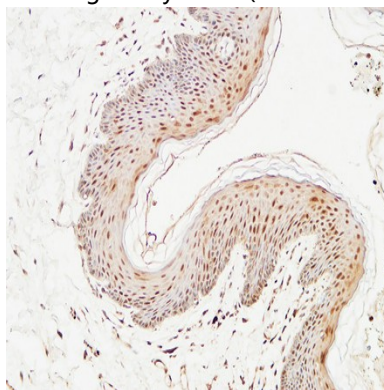
active in the reversible S-nitrosylation of cysteines in certain proteins, which is part of the response to intracellular nitric oxide. This protein is found in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011],function:ADF augments the expression of the interleukin-2 receptor TAC (IL2R/P55),function:Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. 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.,PTM:In the fully reduced protein, both Cys-69 and Cys-73 are nitrosylated in response to nitric oxide (NO). When two disulfide bonds are present in the protein, only Cys-73 is nitrosylated. Cys-73 can serve as donor for nitrosylation of target proteins.,similarity:Belongs to the thioredoxin family.,similarity:Contains 1 thioredoxin domain.,subunit:Homodimer; disulfide-linked. Interacts with TXNIP through the redox-active site. Interacts with MAP3K5 and CASP3.,

Research Area

Image Data



Western Blot analysis of 1,mouse-liver 2,hela cells using primary antibody diluted at 1:1000 (4°C overnight) . Secondary antibody: Goat Anti-rabbit IgG IRDye 800 (diluted at 1:5000, 25°C, 1 hour)

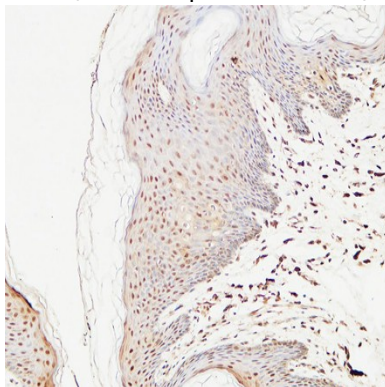


Immunohistochemical analysis of paraffin-embedded Human skin. 1, Antibody was diluted at 1:400 (4°,overnight) . 2,

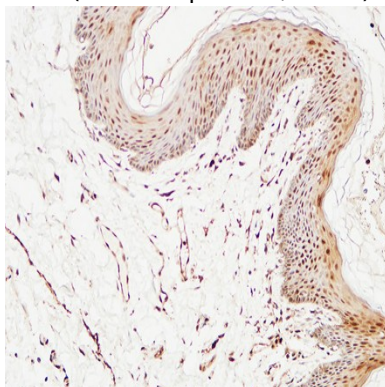
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High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .



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Note

For research use only.