

Thioredoxin Polyclonal Antibody

Catalog # AP74248

Specification

Thioredoxin Polyclonal Antibody - Product Information

Application WB, IHC-P Primary Accession P10599

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

Thioredoxin Polyclonal Antibody - Additional Information

Gene ID 7295

Other Names

Thioredoxin (Trx) (ATL-derived factor) (ADF) (Surface-associated sulphydryl protein) (SASP)

Dilution

WB~~1:1000 IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Thioredoxin Polyclonal Antibody - Protein Information

Name TXN

Synonyms TRDX, TRX, TRX1

Function

Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions (PubMed:17182577, PubMed:19032234, PubMed:2176490). 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 (PubMed:16408020, PubMed:17606900). 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 (PubMed:11118054, PubMed:<a



href="http://www.uniprot.org/citations/9108029" target=" blank">9108029).

Cellular Location

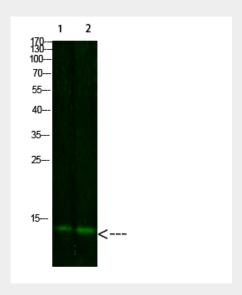
Nucleus. Cytoplasm. Secreted Note=Translocates from the cytoplasm into the nucleus after phorbol 12- myristate 13-acetate induction (PMA) (PubMed:9108029). Predominantly in the cytoplasm in non irradiated cells (PubMed:11118054). Radiation induces translocation of TRX from the cytoplasm to the nucleus (PubMed:11118054). Secreted by a leaderless secretory pathway (PubMed:1332947).

Thioredoxin Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

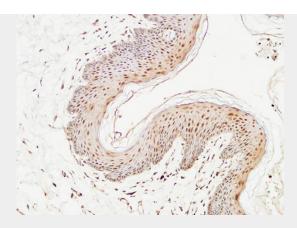
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Thioredoxin Polyclonal Antibody - Images

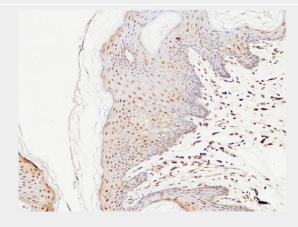


Western Blot analysis of 1,mouse-liver 2,hela cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody ☐Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour)

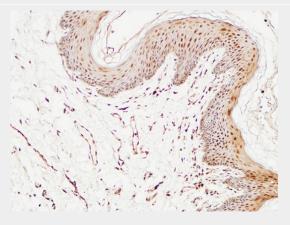




Immunohistochemical analysis of paraffin-embedded Human skin. 1, Antibody was diluted at 1:400(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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