



Rabbit Anti-Thioredoxin antibody

SL0458R

Product Name:	Thioredoxin
Chinese Name:	硫氧还蛋白抗体
Alias:	ADF; Surface associated sulphhydryl protein; Thioredoxin-1; Thioredoxin 1; Thioredoxin1; TXN protein; ADF; ATL derived factor; DKFZp686B1993; MGC61975; SASP; Surface associated sulphhydryl protein; Surface-associated sulphhydryl protein; Thioredoxin; TRDX; TRX 1; TRX; TRX1; TXN; TXN; ATL derived factor; ATL-derived factor; THIO HUMAN; zgc:92903.
文献引用 PubMed	<p>Specific References(3) SL0458R has been referenced in 3 publications.</p> <p>[IF=3.24]Li, Mo-fei, et al. "First characterization of a teleost Epstein-Barr virus-induced gene 3 (EBI3) reveals a regulatory effect of EBI3 on the innate immune response of peripheral blood leukocytes." <i>Developmental & Comparative Immunology</i> 41.4 (2013): 514-522. WB;</p> <p>PubMed:23932982</p> <p>[IF=7.60]Gao, Fuping, et al. "Cytotoxicity and therapeutic effect of irinotecan combined with selenium nanoparticles." <i>Biomaterials</i> (2014). IHC-P;Mouse.</p> <p>PubMed:25064805</p> <p>[IF=1.55]Zhang, Junjie, et al. "Screening and identification of post-traumatic stress-related serum factors in children with Wilms tumors." <i>Oncology Letters</i> 11.2 (2016): 1299-1304. WB;Human.</p> <p>PubMed:26893734</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections

	<p>need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.</p>
Molecular weight:	12kDa
Cellular localization:	The nucleuscytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Thioredoxin:51-105/105
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is 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]</p> <p>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. 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.</p> <p>Subunit: Homodimer; disulfide-linked. Interacts with TXNIP through the redox-active site. Interacts with MAP3K5 and CASP3. In case of infection, interacts with S.typhimurium protein slrP. Interacts with APEX1; the interaction stimulates the FOS/JUN AP-1 DNA-binding activity in a redox-dependent manner.</p> <p>Subcellular Location: Nucleus. Cytoplasm. Secreted. Note=Secreted by a leaderless secretory pathway. Predominantly in the cytoplasm in non irradiated cells. Radiation induces translocation of TRX from the cytoplasm to the nucleus.</p> <p>Similarity: Belongs to the thioredoxin family. Contains 1 thioredoxin domain.</p> <p>SWISS:</p>

P10599

Gene ID:
7295

Database links:

[Entrez Gene: 7295](#)Human

[Entrez Gene: 22166](#)Mouse

[Entrez Gene: 116484](#)Rat

[Oimim: 187700](#)Human

[SwissProt: P10599](#)Human

[SwissProt: P10639](#)Mouse

[SwissProt: P11232](#)Rat

[Unigene: 435136](#)Human

[Unigene: 260618](#)Mouse

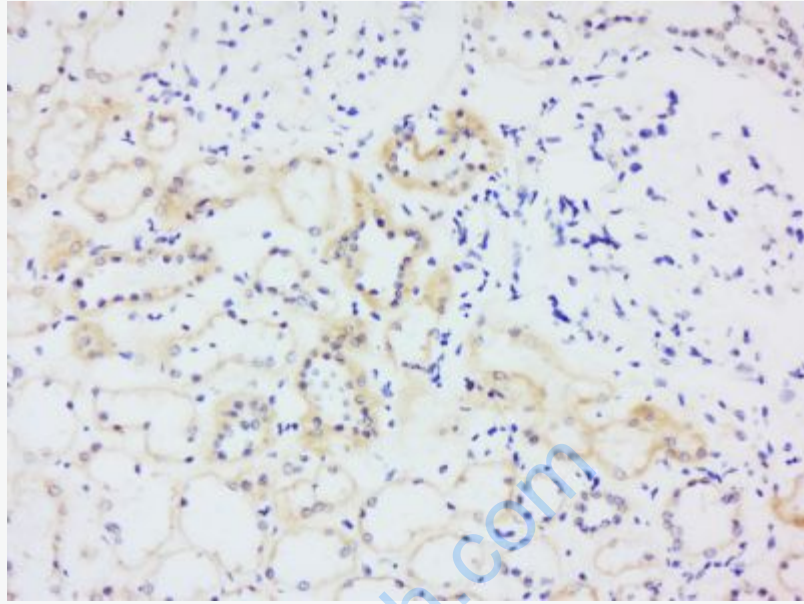
[Unigene: 29777](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

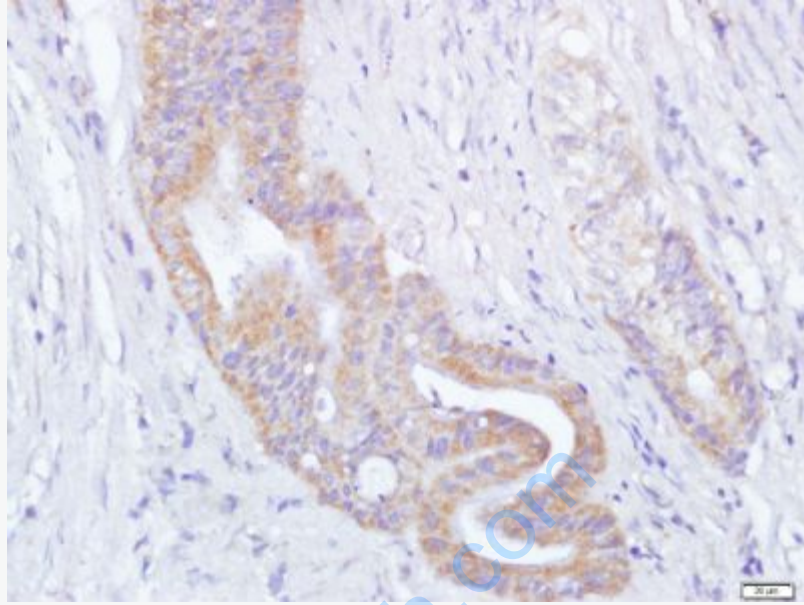
硫氧还蛋白(Thioredoxin, Trx)是一类广泛存在于生物体内的多功能酸性蛋白, 分子量约12kDa, 是一种小分子含硒蛋白质, 参与细胞的一系列生化反应, 包括酶活性的调节、转录因子的调控等, 是重要的酶活力调节蛋白。

硫氧还蛋白的功能绝大多数是依赖于硫氧还蛋白还原靶蛋白中的二硫键。所有硫氧还蛋白均有一个保守的活性中心, Trp-Cys-Gly(Ala)-Pro-Cys, 活性中心有两个具有氧还活性的半胱氨酸残基。

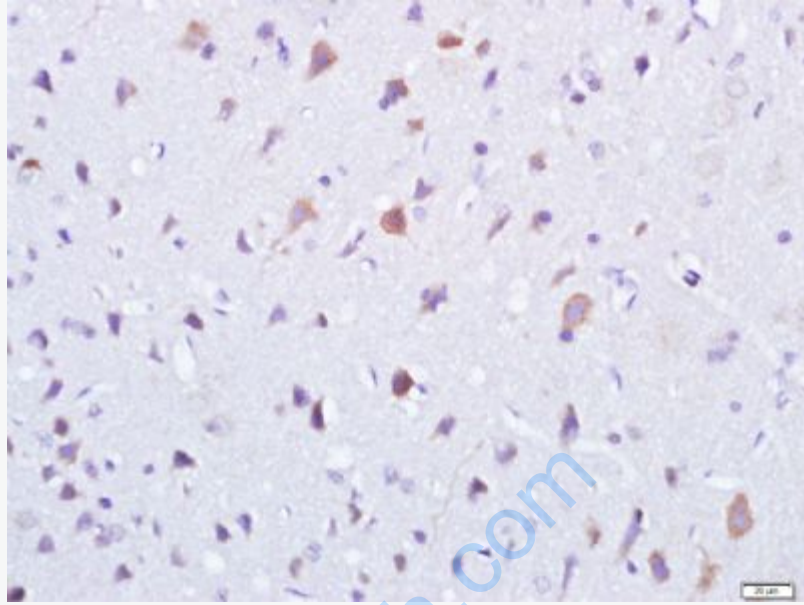


Picture:

Paraformaldehyde-fixed, paraffin embedded (human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Thioredoxin) Polyclonal Antibody, Unconjugated (SL0458R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Thioredoxin) Polyclonal Antibody, Unconjugated (SL0458R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Thioredoxin) Polyclonal Antibody, Unconjugated (SL0458R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.