



## Rabbit Anti-PINX-1 antibody

SL9594R

<b>Product Name:</b>	PINX-1
<b>Chinese Name:</b>	端粒酶抑制因子PinX-1抗体
<b>Alias:</b>	67-11-3 protein; FLJ20565; Hepatocellular carcinoma-related putative tumor suppressor; Liver-related putative tumor suppressor; LPTL; LPTS; MGC8850; PIN2 interacting protein 1; Pin2-interacting protein X1; PIN2/TERF1-interacting telomerase inhibitor 1; PINX1; PINX1_HUMAN; Protein 67-11-3; TRF1-interacting protein 1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	37kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PINX-1:65-160/328
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	PINX1 is a ubiquitously expressed protein that localizes to nucleoli and telomere speckles. PINX1 contains one G-patch domain and one telomeric inhibiting domain (TID) at its C-terminus. PINX1 interacts with the telomere protein TRF1 and the telomerase reverse transcriptase TERT. The TID domain of PINX1 specifically interacts

with TERT and functions to inhibit its activity, thus participating in the regulation of telomerase activity. Overexpression of PINX1 leads to shortened telomeres, further supporting an inhibitory role of PINX1 on telomerase activity. The depletion of PINX1 significantly increases telomerase activity and may lead to tumorigenicity of cancer cells. This suggests that PINX1 acts as a tumor suppressor and can inhibit cell proliferation. In addition, PINX1 is involved in nucleolar RNA maturation.

**Function:**

Microtubule-binding protein essential for faithful chromosome segregation. Mediates TRF1 and TERT accumulation in nucleolus and enhances TRF1 binding to telomeres. Inhibits telomerase activity. May inhibit cell proliferation and act as tumor suppressor.

**Subunit:**

Interacts with MCRS1, TERT, TERF1, NCL/nucleolin, and the telomerase RNA.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Ubiquitous; expressed at low levels.

**Similarity:**

Belongs to the PINX1 family.  
Contains 1 G-patch domain.

**SWISS:**

Q96BK5

**Gene ID:**

54984

**Database links:**

[Entrez Gene: 54984](#)Human

[Entrez Gene: 72400](#)Mouse

[Entrez Gene: 305963](#)Rat

[Oimim: 606505](#)Human

[SwissProt: Q548A5](#)Human

[SwissProt: Q6QWG9](#)Human

[SwissProt: Q96BK5](#)Human

[SwissProt: Q9CZX5](#)Mouse

[SwissProt: A4L691](#)Rat

[Unigene: 490991](#)Human

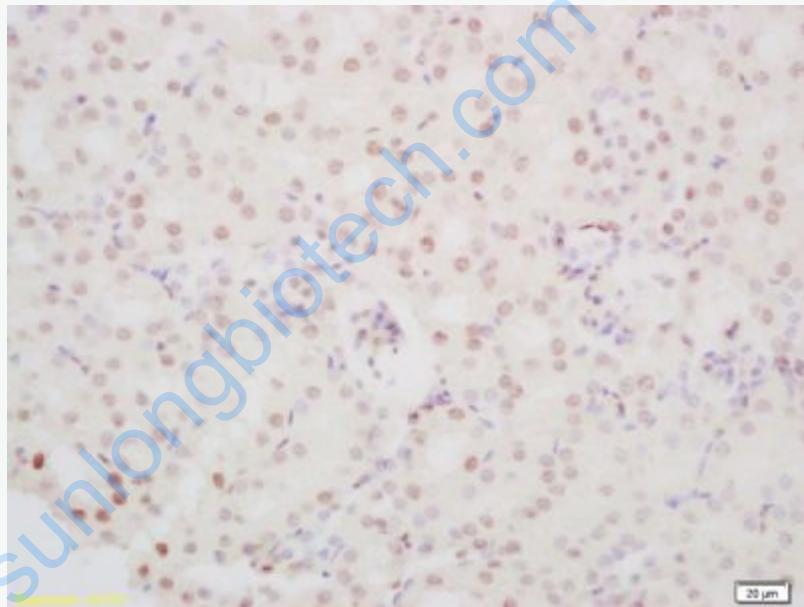
[Unigene: 583894](#)Human

[Unigene: 379214](#)Mouse

[Unigene: 15365](#)Rat

**Important Note:**

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



**Picture:**

Tissue/cell: mouse kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-PINX-1 Polyclonal Antibody, Unconjugated(SL9594R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining
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