

## PINX1 Human

**Description:** Recombinant Human PINX1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 348 amino acids (1-328 a.a) and having a molecular mass of 39.1 kDa. PINX1 is fused to 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-700

For research use only.

**Synonyms:** PINX1, LPTL, LPTS, MGC8850, FLJ20565, Pin2-interacting protein X1, TRF1-interacting protein 1, Liver-related putative tumor suppressor, Protein 67-11-3.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MSMLAERRRK QKWAVDPQNT  
AWSNDDSKFG QRMLEKMGWS KGKGLGAQEH GATDHIKVV KNNHLGLGAT INNEDNWIAH  
QDDFNQLLAE LNTCHGQETT DSSDKKEKKS FSLEEKSKIS KNRVHYMKFT KGKDLSSRSK  
TDLDCIFGKR QSKKTPEGDA SPSTPEENET TTSAFTIQE YFAKRMAALK NKPQVPVPGS  
DISETQVERK RG

**Purity:** Greater than 95.0% as determined by analysis by SDS-PAGE.

### Formulation:

The PINX1 protein contains 20mM Tris-HCl buffer pH-8, 1mM DTT and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

PINX1 is a common expressed protein that localizes to nucleoli and telomere speckles. PINX1 contains a Telomerase Inhibiting Domain that is capable of binding MCRS1, TERT and TERF1. PINX1 has been shown to be a potent telomerase inhibitor and putative tumor suppressor. PINX1 is recruited to chromosome periphery by Nucleolin, their complex is necessary for faithful chromosome congression. PINX1 regulates the nucleolar accumulation and telomeric association of TRF1. PINX1 is involved in gastric cancer development. PINX1 expression is a sign of gastric cancer development. Constitutive expression of PINX1 attributes to telomere maintenance by telomerase and tumorigenicity in cancer cells.

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