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Anti-PINX1 Picoband Antibody

Catalog # ABO12186

Product Information

Application	WB
Primary Accession	Q96BK5
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for PIN2/TERF1-interacting telomerase inhibitor 1(PINX1) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	54984
Other Names	PIN2/TERF1-interacting telomerase inhibitor 1, Liver-related putative tumor suppressor, Pin2-interacting protein X1, Protein 67-11-3, TRF1-interacting protein 1, PINX1, LPTL, LPTS
Calculated MW	37035
Application Details	Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Nucleus. Nucleus, nucleolus. Chromosome, telomere. Chromosome, centromere, kinetochore. Localizes in nucleoli, at telomere speckles and to the outer plate of kinetochores. Localization to the kinetochore is mediated by its central region and depends on NDC80 and CENPE.
Tissue Specificity	Ubiquitous; expressed at low levels. Not detectable in a number of hepatocarcinoma cell lines.
Source	Eukaryota
Protein Name	PIN2/TERF1-interacting telomerase inhibitor 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PINX1 (54-83aa DHIKVQVKNNHLGLGATINNEDNWIAHQDD), different from the related mouse and rat sequences by three amino acids.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the PINX1 family.

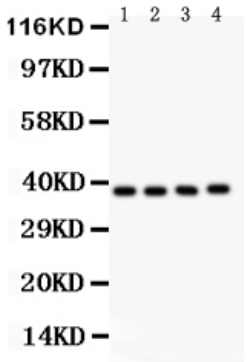
Protein Information

Name	PINX1
Synonyms	LPTL, LPTS
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.
Cellular Location	Nucleus. Nucleus, nucleolus. Chromosome, telomere. Chromosome, centromere, kinetochore Note=Localizes in nucleoli, at telomere speckles and to the outer plate of kinetochores. Localization to the kinetochore is mediated by its central region and depends on NDC80 and CENPE
Tissue Location	Ubiquitous; expressed at low levels. Not detectable in a number of hepatocarcinoma cell lines

Background

PINX1, also known as PIN2 interacting protein 1, is a telomerase inhibitor and a possible tumor suppressor. It is mapped to 8p23. Over-expression of PINX1 results in decreased telomerase activity, telomere shortening, and induction of crisis. Reduction of PINX1 leads to an increase in telomerase activity and elongation of telomeres. PINX1 differs from other proteins that regulate telomere length in that it acts on telomerase while other proteins adjust telomere length without affecting telomerase activity. The PINX1 budding yeast orthologue Gnop1 inhibits telomerase by isolating the uncomplexed TERT protein so that it cannot associate with the telomerase template RNA, which prevents telomerase from being assembled. However, in humans, PINX1 impedes already assembled telomerase.

Images



Anti- PINX1 Picoband antibody, ABO12186, Western blottingAll lanes: Anti PINX1 (ABO12186) at 0.5ug/mlLane 1: Human Placenta Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: HUT Whole Cell Lysate at 40ugLane 4: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 37KDObserved bind size: 37KD