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Anti-PINX1 Picoband Antibody
Catalog # ABO12186

Specification

Anti-PINX1 Picoband Antibody - 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.

Anti-PINX1 Picoband Antibody - 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 MW KDa

Application Details
Western blot, 0.1-0.5 µg/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.

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.

Anti-PINX1 Picoband Antibody - 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

Anti-PINX1 Picoband Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PINX1 Picoband Antibody - Images

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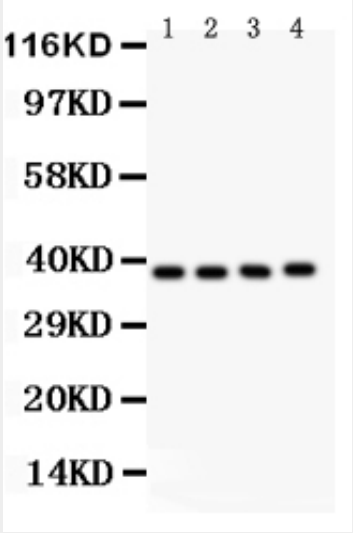

Anti- PINX1 Picoband antibody, ABO12186, Western blottingAll lanes: Anti PINX1 (ABO12186) at 0.5ug/mlLane 1: Human Placenta Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: HUT Whole Cell Lysate at 40ugLane 4: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 37KDObserved bind size: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

Anti-PINX1 Picoband Antibody - 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.