Mouse anti PIN-1 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** PIN-1
- **Catalogue:** 606-170
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZP004
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein PIN-1

BACKGROUND

Peptidyl-prolyl cis/trans isomerases (PPIases) catalyze the cis/trans isomerization of peptidyl-prolyl peptide bonds. This gene encodes one of the PPIases, which specifically binds to phosphorylated ser/thr-pro motifs to catalytically regulate the post-phosphorylation conformation of its substrates. The conformational regulation catalyzed by this PPIase has a profound impact on key proteins involved in the regulation of cell growth, genotoxic and other stress responses, the immune response, induction and maintenance of pluripotency, germ cell development, neuronal differentiation, and survival. This enzyme also plays a key role in the pathogenesis of Alzheimer's disease. Pin1 has important roles in several cellular signaling pathways, consequently impacting the development of multiple types of cancers. It is overexpressed in the majority of cancers and its activity strongly contributes to tumor initiation and progression. Inactivation of PIN1 function conversely curbs tumor growth and cancer stem cell expansion, restores chemosensitivity and blocks metastatic spread, thus providing the rationale for a therapeutic strategy based on PIN1 inhibition.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human PIN-1 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 15.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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*Optimal dilutions should be determined by researchers for the specific applications.

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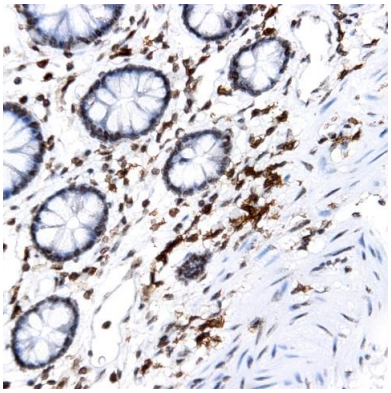
DATA ATTACHMENTS



Immunohistochemistry: Human kidney tissue (FFPE) stained with Mouse anti-PIN-1 (Cat# 606-170) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES