Anti-Pin1 antibody [EPR18546-317] ab192036

1 References 7 Images

Overview

Product name Anti-Pin1 antibody [EPR18546-317]
Description Rabbit monoclonal [EPR18546-317] to Pin1
Host species Rabbit
Tested applications Suitable for: WB, ICC/IF, Flow Cyt, IP
Species reactivity Reacts with: Mouse, Rat, Human
Immunogen Recombinant full length protein within Mouse Pin1 aa 1 to the C-terminus. The exact sequence is proprietary.
Database link: Q9QUR7
Positive control WB: HeLa, MCF7, C6 and NIH/3T3 cell lysates; Human fetal brain, fetal heart and fetal kidney lysates; mouse and rat brain, heart, kidney and spleen lysates. ICC/IF: HeLa and NIH/3T3 cells.
Flow Cyt.: HeLa cells. IP: NIH/3T3 cell lysate.

General notes Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.
This product is a recombinant rabbit monoclonal antibody.

Properties

Form Liquid


Storage buffer Preservative: 0.01% Sodium azide
Constituents: 0.05% BSA, 40% Glycerol, PBS

Purity Protein A purified

Clonality Monoclonal

Clone number EPR18546-317

Isotype IgG

Applications
**Function**

Essential PPIase that regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Displays a preference for an acidic residue N-terminal to the isomerized proline bond. Catalyzing pSer/Thr-Pro cis/trans isomerizations.

**Sequence similarities**

Contains 1 PpiC domain.

Contains 1 WW domain.

**Domain**

The WW domain is required for the interaction with STIL and KIF20B.

**Post-translational modifications**

Phosphorylated upon DNA damage, probably by ATM or ATR.

**Cellular localization**

Nucleus.

---

**Target**

**Images**

Pin1 was immunoprecipitated from 0.35 mg of NIH/3T3 (mouse embryonic fibroblast cell line) lysate with ab192036 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab192036 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: NIH/3T3 whole cell lysate 10 µg (Input).

Lane 2: ab192036 IP in NIH/3T3 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab192036 in NIH/3T3 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 2 seconds.
All lanes: Anti-Pin1 antibody [EPR18546-317] (ab192036) at 1/2000 dilution

Lane 1: Human fetal brain lysate
Lane 2: Human fetal heart lysate
Lane 3: Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/4000 dilution

Developed using the ECL technique.

Predicted band size: 18 kDa
Observed band size: 18 kDa

Exposure time: 5 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes: Anti-Pin1 antibody [EPR18546-317] (ab192036) at 1/5000 dilution

Lane 1: HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate
Lane 2: MCF7 (human breast adenocarcinoma cell line) cell lysate
Lane 3: C6 (rat glial tumor cell line) cell lysate
Lane 4: NIH/3T3 (mouse embryonic fibroblast cell line) cell lysate
Lane 5: Mouse brain lysate
Lane 6: Rat brain lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution
Developed using the ECL technique.

**Predicted band size**: 18 kDa  
**Observed band size**: 18 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.  
Exposure times: Lanes 1-3: 15 seconds; Lanes 4-6: 30 seconds.

All lanes: Anti-Pin1 antibody [EPR18546-317] (ab192036) at 1/2000 dilution

Lane 1: Mouse heart lysate  
Lane 2: Mouse kidney lysate  
Lane 3: Mouse spleen lysate  
Lane 4: Rat heart lysate  
Lane 5: Rat kidney lysate  
Lane 6: Rat spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary  
**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size**: 18 kDa  
**Observed band size**: 18 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.  
Exposure times: Lanes 1-3: 5 seconds; Lanes 4-6: 15 seconds.
Immunofluorescent analysis of 4% PFA-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Pin1 with ab192036 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and nuclear staining on HeLa cells.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

---

Immunofluorescent analysis of 4% PFA-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embryonic fibroblast cell line) cells labeling Pin1 with ab192036 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and nuclear staining on NIH/3T3 cells.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.
Flow cytometric analysis of 4% PFA-fixed, 90% methanol permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling Pin1 with ab192036 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors