**BACKGROUND**


**REFERENCES**


**SOURCE**

p-Cdc2 p34 (Thr 161) is available as either goat (sc-12341) or rabbit (sc-12341-R) polyclonal affinity purified antibody raised against a short amino acid sequence containing phosphorylated Thr 161 of Cdc2 p34 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-12341 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

p-Cdc2 p34 (Thr 161) is recommended for detection of Thr 161 phosphorylated Cdc2 p34, Cdk2 and Cdk3 of mouse, rat, human and Xenopus laevis origin by Western Blotting (starting dilution 1:200, dilution range: 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range: 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range: 1:30-1:300).

p-Cdc2 p34 (Thr 161) is also recommended for detection of correspondingly phosphorylated Cdc2 p34, Cdk2 and Cdk3 in additional species, including equine, canine, bovine, porcine and avian.

Molecular Weight of p-Cdc2 p34: 34 kDa.

Positive Controls: Saos-2 cell lysate: sc-2235, HeLa whole cell lysate: sc-2200 or NAMALWA cell lysate: sc-2234.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: for goat primary antibody (sc-14268): use donkey anti-goat IgG-HRP: sc-2020 (range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (range: 1:2000-1:5000), for rabbit primary antibody (sc-1428B-R): use goat anti-rabbit IgG-HRP: sc-2004 (range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (range: 1:2000-1:5000); Cruz Marker™ Molecular Weight Standards; sc-2035, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent), Western Blotting Luminol Reagent: sc-2048 and Lambda Phosphatase: sc-203012A. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: for goat primary antibody (sc-14268): use donkey anti-goat IgG-FITC: sc-2024 (range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (range: 1:100-1:400), for rabbit primary antibody (sc-1428B-R): use goat anti-rabbit IgG-FITC: sc-2012 (range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

Western blot analysis of Cdc2 p34 phosphorylation in untreated (A, D), nocodazole treated (B, E) and nocodazole and lambda protein phosphatase (sc-200312A) treated (C, F) HeLa whole cell lysates. Antibodies tested include p-Cdc2 p34 (Thr 161): sc-12341, p-Cdc2 p34 (PSTAIRE): sc-53, Cdc2: sc-24941.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.