

Product information

Monoclonal anti-human CDKN1b antibody (clone AT7B9)

Mouse IgG₁, κ

Cat. No. IBATGA0417

Immunogen: Recombinant human CDKN1b (1-198aa) purified from *E. coli*

NCBI Accession No.: NP_004055

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human CDKN1b mAb, clone AT7B9, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CDKN1b protein.

Description: The cyclin-dependent kinase inhibitor p27Kip1 plays an important role in cell cycle regulation. The cyclin-dependent kinase-inhibitory activity of p27Kip1 is regulated by changes in its concentration and its subcellular localization. Cyclin-dependent kinase inhibitor p27(kip1) is a putative tumor suppressor for human cancer.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

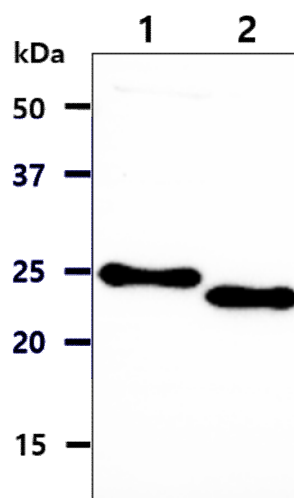
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Western blot analysis

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CDKN1b antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

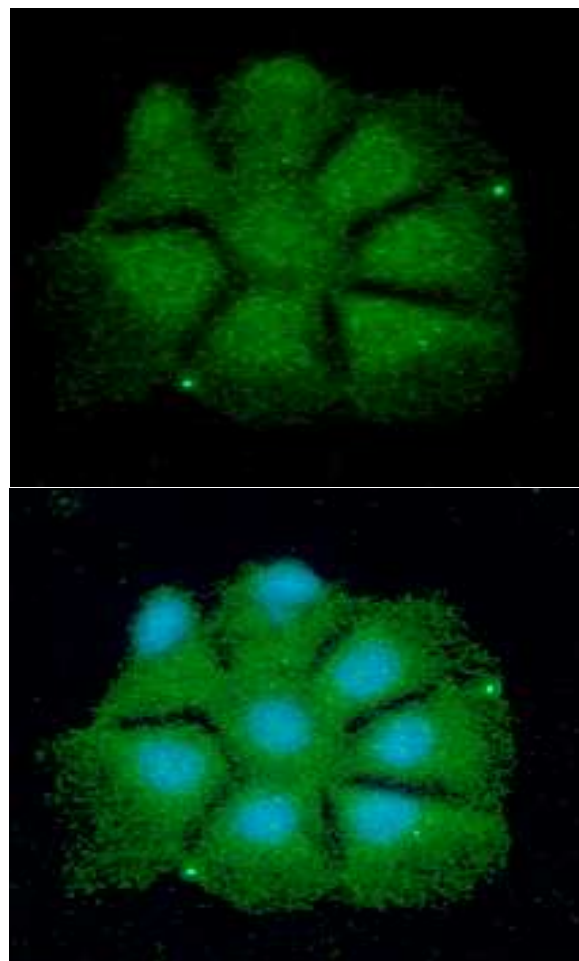
Lane 1 : MCF-7 cell lysate

Lane 2 : NIH/3T3 cell lysate



ICC/IF analysis

ICC/IF analysis of CDKN1b in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CDKN1b antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Fujita N., *et al.* (2003) *J Biol Chem.* **278(49)**: 49254-60.
Viglietto G., *et al.* (2002) *Nat Med.* **8(10)**: 1136-44.

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