

Anti-CDKN1B Polyclonal Antibody

Product Details

Ig Type: IgG
Reactivity: Human, Mouse, Rat (predicted: Chicken, Dog, Pig, Sheep)
Molecular Weight: Theoretical: 22 kDa. Actual: 22 kDa.
Purification: Protein A purified

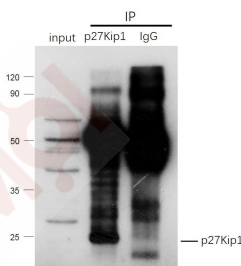
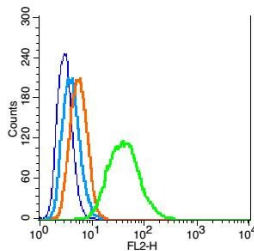
Applications

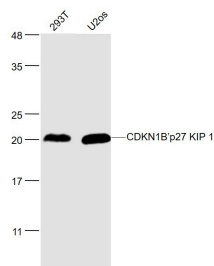
1. Blank control: RSC96 (blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice.
Isotype Control Antibody: Rabbit IgG (orange);
Secondary Antibody: Goat anti-rabbit IgG-Pe (white blue),
Dilution: 1:200 in 1 X PBS containing 0.5% BSA;
Primary Antibody Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA (green).

2. CDKN1B (p27Kip1) was immunoprecipitated from mouse kidney tissue with TMAB-00410 at 1/150 dilution. Western blot was performed from the immunoprecipitate using protein A/G beads. HRP Conjugated Goat anti-Rabbit IgG (Heavy Chain specific) was used as secondary antibody at 1:5000 dilution.

Verified Activity: Lane 1: mouse kidney tissue lysate 10 μ g (Input).
Lane 2: TMAB-00410 IP in mouse kidney tissue lysate.
Lane 3: native rabbit IgG IP in mouse kidney tissue lysate (negative control).
Secondary: Goat anti-Rabbit IgG (Heavy Chain specific), HRP Conjugated, 1:5000

3. Sample:
293t (Human) Cell Lysate at 30 μ g
U2os (Human) Cell Lysate at 30 μ g
Primary: Anti-CDKN1B/p27 KIP 1 (TMAB-00410) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kDa
Observed band size: 22 kDa





Application: FCM,IF,IHC-Fr,WB

Recommended WB: 1:500-2000; IHC-Fr: 1:100-500; IF: 1:200-800; FCM: 1µg/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human P27 kip1

Antigen Species: Human

Gene ID: 1027

Uniprot ID: P46527

Synonyms: Cyclin-Dependent Kinase Inhibitor p27;KIP1;CDKN1B;Cyclin-Dependent Kinase Inhibitor 1B; p27Kip1

Biology Area: Cip/Kip,Cip / Kip,Cip/kip

Research Background

Cell cycle progression is regulated by cyclins and their cognate Cdks. p27 KIP 1 is a cell cycle regulatory mitotic inhibitor of cdk activity. p27 KIP 1 is a candidate tumor suppressor gene, and has been proposed to function as a possible mediator of TGF beta induced G1 arrest. p27 KIP 1 is up regulated in response to antimitogenic stimuli. The increased protein expression of p27 results in cellular arrest by binding to cyclin/Cdk complexes such as cyclin D1/Cdk4. p27 Kip1 is regulated by phosphorylation on serine 10 (S10) and threonine 187 (T187). Phosphorylation by CDK2 on T187 results in ubiquitylation and degradation of p27 Kip 1; while phosphorylation by hKIS on S10 signals the nuclear export to the cytoplasm.

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