

Anti-CDK4 Antibody (6X741)

Product Details

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| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 6X741 |
| Purification: | Affinity-chromatography |

Applications

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| Verified Activity: | <p>1. Western Blot</p> <ul style="list-style-type: none">-Positive WB detected in: Hela whole cell lysate, HepG2 whole cell lysate, Jurkat whole cell lysate, 293 whole cell lysate, MCF-7 whole cell lysate, PC-3 whole cell lysate-All lanes: CDK4 antibody at 1:2000-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution-Predicted band size: 34, 21 kDa <p>-Observed band size: 34 kDa</p> <p>2. Immunoprecipitating CDK4 in Hela whole cell lysate</p> <ul style="list-style-type: none">-Lane 1: Rabbit control IgG instead of TMAH-00253 in Hela whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/1500)-Lane 2: TMAH-00253(2µg)+ Hela whole cell lysate(500µg)-Lane 3: Hela whole cell lysate (10µg) |
| Application: | ELISA,IP,WB |
| Recommended | WB:1:500-1:5000; IP:1:200-1:1000. |

Properties

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

Antigen Details

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| Immunogen: | A synthetic peptide: Human CDK4 |
| Antigen Species: | Human |
| Gene ID: | 1019 |
| Uniprot ID: | P11802 |
| Synonyms: | cyclin-dependent kinase 4;CMM3;PSK-J3 |
| Biology Area: | Isotype/Loading Controls, Epigenetics and Nuclear Signaling, Cancer, Cell biology |

Research Background

Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition.

Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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