

# Cdk11 (8B6): sc-517026

## BACKGROUND

Cell cycle progression is controlled, in part, by a family of cyclin-dependent kinases (Cdks) that work to phosphorylate key substrates involved in each phase of cell cycle progression. Cdks are the catalytic subunits of serine/threonine protein kinases, a large family of proteins that act as regulators of the eukaryotic cell cycle. Cdk11 (cyclin-dependent kinase 11), also known as CDC2L6 (cell division cycle 2-like 6 (CDK8-like)), is a 502 amino acid protein that contains one protein kinase domain and functions to catalyze the ATP-dependent transfer of phospho residues to target substrates. Additionally, Cdk11 exists as a component of the mediator coactivator complex, suggesting a role in transcriptional activation. Multiple isoforms of Cdk11 exist due to alternative splicing events. The gene encoding Cdk11 maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CDK19 (human) mapping to 6q21; Cdk19 (mouse) mapping to 10 B1.

## SOURCE

Cdk11 (8B6) is a mouse monoclonal antibody raised against amino acids 367-467 representing partial length Cdk11 of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Cdk11 (8B6) is recommended for detection of Cdk11 of mouse, rat and human 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 1:30-1:3000).

Suitable for use as control antibody for Cdk11 siRNA (h): sc-72844, Cdk11 siRNA (m): sc-72845, Cdk11 shRNA Plasmid (h): sc-72844-SH, Cdk11 shRNA Plasmid (m): sc-72845-SH, Cdk11 shRNA (h) Lentiviral Particles: sc-72844-V and Cdk11 shRNA (m) Lentiviral Particles: sc-72845-V.

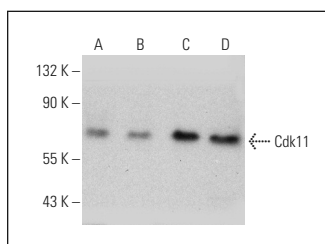
Molecular Weight of Cdk11: 57 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, C6 whole cell lysate: sc-364373 or Hs 181 Tes whole cell lysate: sc-364779.

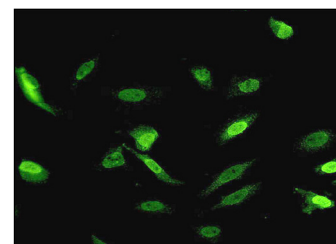
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



Cdk11 (8B6): sc-517026. Western blot analysis of Cdk11 expression in Hs 181 Tes (A), T98G (B), Jurkat (C) and C6 (D) whole cell lysates.



Cdk11 (8B6): sc-517026. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

## STORAGE

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

## RESEARCH USE

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