

## CDC25C

**Reactivity:**Human

**Tested applications:**WB

**Recommended Dilution:**WB 1:500 - 1:1000

**Calculated MW:**53kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human CDC25C

**Storage Buffer:**

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

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**Synonym:**

cdc25C; CDC25C;CDC25

**Catalog #:**A0444

**Antibody Type:**

Monoclonal Antibody

**Species:**Mouse

**Gene ID:**995

**Isotype:**IgG

**Swiss Prot:**P30307

**Purity:**Affinity purification

For research use only.

**Background:**

cdc25 is a protein phosphatase responsible for dephosphorylating and activating cdc2, a crucial step in regulating the entry of all eukaryotic cells into mitosis (1). cdc25C is constitutively phosphorylated at Ser216 throughout interphase by c-TAK1, while phosphorylation at this site is DNA damage-dependent at the G2/M checkpoint (2). When phosphorylated at Ser216, cdc25C binds to members of the 14-3-3 family of proteins, sequestering cdc25C in the cytoplasm preventing premature mitosis (3). The checkpoint kinases Chk1 and Chk2 phosphorylate cdc25C at Ser216 in response to DNA damage (4,5).

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