

CDC25C

Reactivity:Human Mouse Rat

Tested applications:WB IHC ICC IF IP

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 ICC 1:50 - 1:200 IF 1:50 - 1:200
IP 1:50 - 1:100

Calculated MW:53kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human CDC25C

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

q

Synonym:

CDC25; PPP1R60;

Catalog #:A1672

Antibody Type:

Polyclonal Antibody

Species:Rabbit

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 and thereby 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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