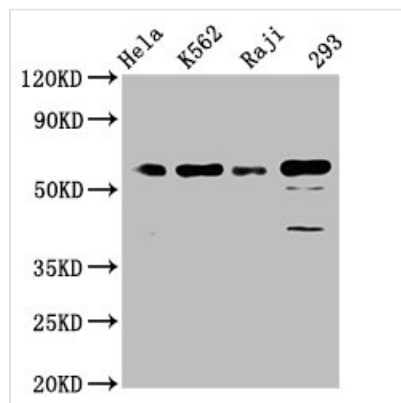




CDC25C Antibody

Product Code	CSB-RA004996A0HU
Abbreviation	M-phase inducer phosphatase 3
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P30307
Immunogen	A synthesized peptide derived from human CDC25C
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IF, IP; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200, IP:1:200-1:1000
Relevance	Functions as a dosage-dependent inducer in mitotic control. Tyrosine protein phosphatase required for progression of the cell cycle. When phosphorylated, highly effective in activating G2 cells into prophase. Directly dephosphorylates CDK1 and activates its kinase activity.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	M-phase inducer phosphatase 3, Dual specificity phosphatase Cdc25C, CDC25C
Immunogen Species	Homo sapiens (Human)
Research Area	Cell Biology
Gene Names	CDC25C
Accession NO.	3E6

Image



Western Blot

Positive WB detected in: HeLa whole cell lysate, K562 whole cell lysate, Raji whole cell lysate, 293 whole cell lysate

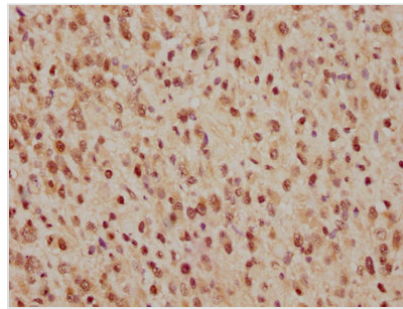
All lanes: Cdc25C antibody at 1.65µg/ml

Secondary

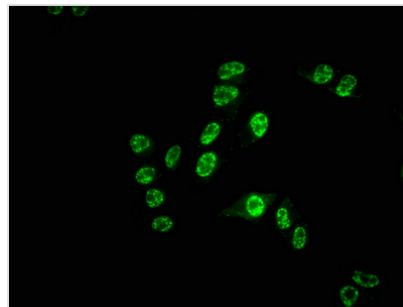
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 54, 52, 49, 46 KDa

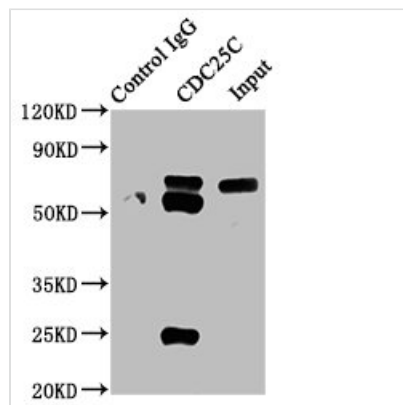
Observed band size: 60 KDa



IHC image of CSB-RA004996A0HU diluted at 1:165 and staining in paraffin-embedded human glioma cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of HeLa cells with CSB-RA004996A0HU at 1:55, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Immunoprecipitating CDC25C in HEK293 whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-RA004996A0HU in HEK293 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-RA004996A0HU (3μg) + HEK293 whole cell lysate (500μg)

Lane 3: HEK293 whole cell lysate (20μg)

Description

The recombinant CDC25C monoclonal antibody is produced in vitro expression system. The expression process includes cloning the human CDC25C DNA sequence into the expression vector and transfection clones into the cell line. This CDC25C antibody shows reactivity with CDC25C protein from human. It has undergone affinity-chromatography purification. And it has been tested quality in multiple applications, including ELISA, WB, IHC, IF, and IP.

CDC25C, one of the CDC25 phosphatases, plays an important role in the regulation of serine/threonine kinase activity involved in the cell cycle. It can promote mitotic cell G2/M transition by triggering CDK1 dephosphorylation to activate the cyclin B1/CDK1 complex. In addition to regulating G2/M progression, CDC25C also mediates DNA damage repair. High expression of CDC25C has been found in many types of cancer, including lung, liver, gastric, and prostate, and is correlated to poor prognosis and low survival rates.