

Recombinant Cdc25C Monoclonal Antibody

catalog number: **AN301883L**

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

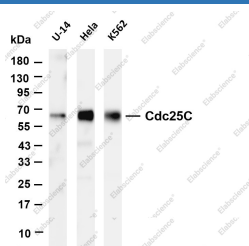
Reactivity	Human;Mouse;Rat
Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111504
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

WB	1:2000-1:10000
IHC	1:1000-1:4000
IF	1:200-1:1000
IP	1:50-1:200
ELISA	1:5000-1:20000

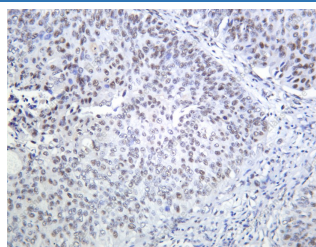
Data



Western blot analysis of U-14,HeLa ,K562 cell lysates using Cdc25C Antibody (AN301883L).

Observed-MW:58 kDa

Calculated-MW:53 kDa



Immunohistochemical analysis of paraffin-embedded Human bladder carcinoma sections using Cdc25C Antibody (AN301883L).

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Cdc25C is a protein phosphatase responsible for dephosphorylating and activating cdc2, a crucial step in regulating the entry of all eukaryotic cells into mitosis. 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. 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. The checkpoint kinases Chk1 and Chk2 phosphorylate Cdc25C at Ser216 in response to DNA damage.

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Toll-free: 1-888-852-8623
Web: www.elabscience.com

Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017

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