

Product datasheet

Anti-Cdc25B (phospho S323) antibody ab53103

[3 References](#) [1 Image](#)

Overview

Product name	Anti-Cdc25B (phospho S323) antibody
Description	Rabbit polyclonal to Cdc25B (phospho S323)
Host species	Rabbit
Specificity	Detects endogenous levels of Cdc25B only when phosphorylated at serine 323
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide derived from Human Cdc25B around the phosphorylation site of serine 323 (SPS ^P MP)
Positive control	NIH3T3 cell extract treated with PMA

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	Affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab53103** in the following tested applications.

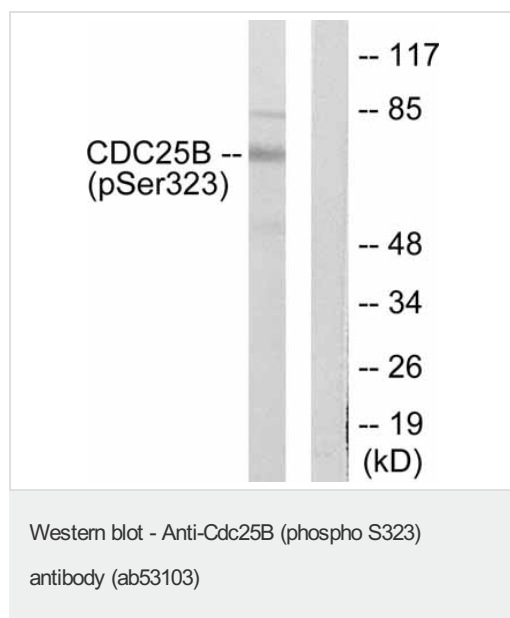
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/20000.
WB		1/300 - 1/1000. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa).

Target

Function	Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Directly dephosphorylates CDK1 and stimulates its kinase activity. The three isoforms seem to have a different level of activity.
Sequence similarities	Belongs to the MPI phosphatase family. Contains 1 rhodanese domain.
Post-translational modifications	Phosphorylated by BRSK1 in vitro. Phosphorylated by CHEK1, which inhibits the activity of this protein. Phosphorylation at Ser-353 by AURKA might locally participate in the control of the onset of mitosis. Phosphorylation by MELK at Ser-169 promotes localization to the centrosome and the spindle poles during mitosis. Phosphorylation at Ser-323 and Ser-375 by MAPK14 is required for binding to 14-3-3 proteins.
Cellular localization	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole.

Images



All lanes : Anti-Cdc25B (phospho S323) antibody (ab53103) at 1/300 dilution

Lane 1 : NIH/3T3 cell extract treated with PMA (125ng/ml, 30 mins)

Lane 2 : NIH/3T3 cell extract treated with PMA (125ng/ml, 30 mins) and the immunogenic phosphopeptide.

Predicted band size: 65 kDa

Observed band size: 65 kDa

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