

Rabbit CDC25B Polyclonal Antibody | anti-CDC25B antibody

CDC25B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322285	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

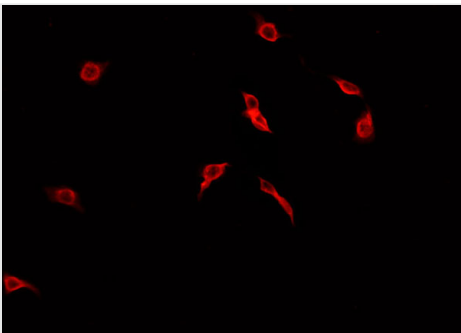
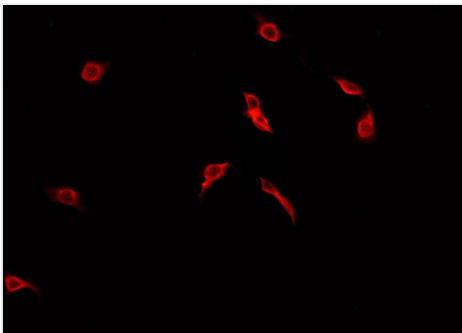
PRODUCT SYNONYMS

CDC25B; Polyclonal Antibody; CDC25B Antibody; A1604853; Cdc 25B; Cdc25b; CDC25HU2; Cdc25m2; Cell division cycle 25 homolog B; Cell division cycle 25B; Cell division cycle 25B isoform 1; Cell division cycle 25B isoform 2; Cell division cycle 25B isoform 3; Cell division cycle 25B isoform 4; Cell division cycle 25B isoform 5; Dual specificity phosphatase Cdc25B; EC 3.1.3.48; M phase inducer phosphatase 2; M-phase inducer phosphatase 2; MPIP2_HUMAN; anti-CDC25B antibody

PRODUCT SPECIFICATIONS

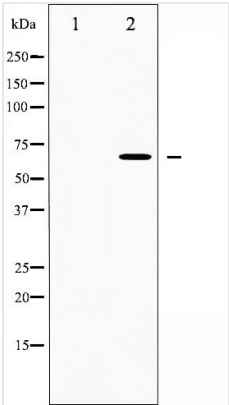
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CDC25B antibody detects endogenous levels of total CDC25B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	468
Applicable Applications for anti-CDC25B antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CDC25B
Subcellular Location	Cytoplasm, Cytoskeleton, Microtubule Organizing Center, Centrosome. Cytoplasm, Cytoskeleton, Spindle Pole.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (90%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Xenopus (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA322285 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

IF (Immunofluorescence)
AAA322285 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of CDC25B expression in RAW264.7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CDC25B antibody

Description: CDC25B is a member of the CDC25 family of phosphatases. CDC25B activates the cyclin dependent kinase CDC2 by removing two phosphate groups and it is required for entry into mitosis. CDC25B shuttles between the nucleus and the cytoplasm due to nuclear localization and nuclear export signals.

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.

Subunit Structure: Interacts with MAPK14 and 14-3-3 proteins.

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.

Similarity: Belongs to the MPI phosphatase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	566559982
NCBI GeneID	994
NCBI Accession #	NP_001274448.1
NCBI GenBank Nucleotide #	NM_001287519.1

UniProt Accession #	P30305; O43551; Q13971; Q5JX77; Q6RSS1; Q9BRA6; D3DVY1; D3DVY2; D3DVY3; D3DVY4
Molecular Weight	Observed: 65 kDa Predicted: 65 kDa
NCBI Official Full Name	M-phase inducer phosphatase 2 isoform 7
NCBI Official Synonym Full Names	cell division cycle 25B
NCBI Official Symbol	CDC25B
NCBI Protein Information	M-phase inducer phosphatase 2
UniProt Protein Name	M-phase inducer phosphatase 2
UniProt Gene Name	CDC25B
UniProt Synonym Gene Names	CDC25HU2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/cdc25b-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322285>