Rabbit CDC25C Polyclonal Antibody | anti-CDC25C antibody

Phospho-CDC25C (Ser198) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329452	**Rabbit**	**Human, MousePredicted Reactivity: Pig (91%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (82%)**	**ELISA, Immunohistochemistry, Western Blot**

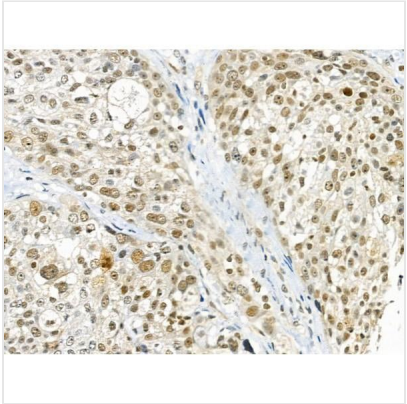
PRODUCT SYNONYMS

CDC25C; Polyclonal Antibody; Phospho-CDC25C (Ser198) Antibody; CDC 25; Cdc 25C; CDC25; Cell division cycle 25 homolog C; Cell division cycle 25C; Cell division cycle 25C protein; Dual specificity phosphatase Cdc25C; M phase inducer phosphatase 3; M-phase inducer phosphatase 3; Mitosis inducer CDC25; MPIP3; MPIP3_HUMAN; Phosphotyrosine phosphatase; PPP1R60; protein phosphatase 1; regulatory subunit 60; anti-CDC25C antibody

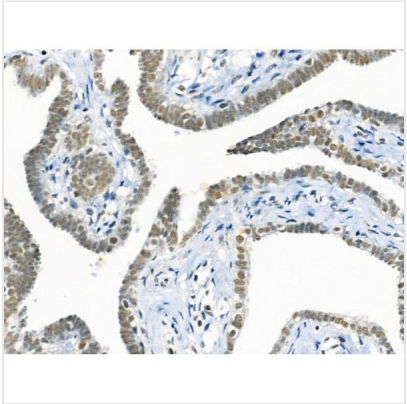
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Pig (91%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (82%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-CDC25C (Ser198) Antibody detects endogenous levels of CDC25C only when phosphorylated at Ser198.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CDC25C antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CDC25C around the phosphorylation site of Ser198.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by CHEK1 and MAPK14 at Ser-216. This phosphorylation creates a binding site for 14-3-3 protein and inhibits the phosphatase. Phosphorylated by PLK4. Phosphorylated by PLK1, leading to activate the phosphatase activity. Phosphorylation by PLK3 at Ser-191 promotes nuclear translocation. Ser-198 is a minor phosphorylation site. Was initially reported to be phosphorylated by PLK3 at Ser-216. However, such phosphorylation by PLK3 was not confirmed by other groups. Phosphorylation at Thr-48, Thr-67, Ser-122, Thr-130, Ser-168 and Ser-214 occurs at G2 and G2-M transition and is probably catalyzed by CDK1. Ser-168 phosphorylation levels are lower than those at the other 5 CDK1 sites. Phosphorylation by CDK1 leads to increased activity.
Subunit Structure	Interacts with MAPK14 and 14-3-3 proteins. When phosphorylated on Ser-129 and/or Thr-130, interacts with PLK1. (Microbial infection) Interacts with HIV-1 Vpr; this interaction inactivates CDC25C phosphatase activity.
Similarity	Belongs to the MPI phosphatase family.
Subcellular Location	Nucleus.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

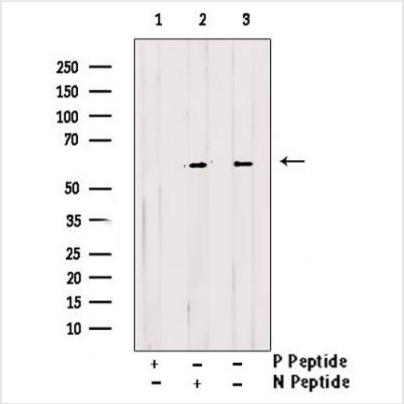
IMAGES



IHC (Immunohistochemisry)
At 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
Staining Human ovarian cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from RAW264.7, using Phospho-cdc25C (Ser198) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CDC25C antibody	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	125625350
NCBI GeneID	995
NCBI Accession #	NP_001781.2
NCBI GenBank Nucleotide #	NM_001790.3
UniProt Accession #	P30307; Q96PL3; Q9H168; Q9H2E8; Q9H2E9; Q9H2F1; D3DQB8
Molecular Weight	53,365 Da
NCBI Official Full Name	M-phase inducer phosphatase 3 isoform a
NCBI Official Synonym Full Names	cell division cycle 25C

NCBI Official Symbol	CDC25C
NCBI Official Synonym Symbols	CDC25; PPP1R60
NCBI Protein Information	M-phase inducer phosphatase 3; mitosis inducer CDC25; phosphotyrosine phosphatase; dual specificity phosphatase CDC25C; protein phosphatase 1, regulatory subunit 60
UniProt Protein Name	M-phase inducer phosphatase 3
UniProt Gene Name	**CDC25C**
UniProt Entry Name	MPIP3_HUMAN

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.

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Online datasheet: https://www.aaabiotech.com/polyclonal/cdc25c-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329452