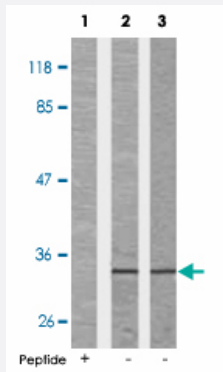


CDC2 (phospho T161) polyclonal antibody

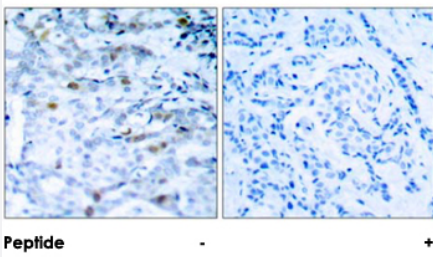
Catalog # PAB25331 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from COLO 205 cells (lane 1 and 2) and K-562 cells (lane 3), using CDC2 (phospho T161) polyclonal antibody (Cat # PAB25331).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using CDC2 (phospho T161) polyclonal antibody (Cat # PAB25331).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDC2.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding T161 of human CDC2.
Sequence	T-Y-Tp-H-E
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid

Purification	Affinity purification
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from COLO 205 cells (lane 1 and 2) and K-562 cells (lane 3), using CDC2 (phospho T161) polyclonal antibody (Cat # PAB25331).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using CDC2 (phospho T161) polyclonal antibody (Cat # PAB25331).

Gene Info — CDC2

Entrez GeneID	983
Protein Accession#	P06493
Gene Name	CDC2
Gene Alias	CDC28A, CDK1, DKFZp686L20222, MGC111195
Gene Description	cell division cycle 2, G1 to S and G2 to M
Omim ID	116940
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000019660|cell cycle controller CDC2|cell division control protein 2 homolog|cell division cycle 2 protein|cyclin-dependent kinase 1|p34 protein kinase

Pathway

- [Cell cycle](#)
- [Gap junction](#)
- [p53 signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Dementia](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Pulmonary Disease](#)