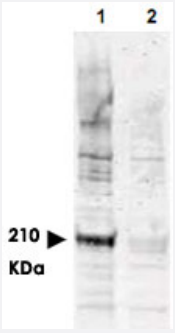
CDC16 (phospho T580) polyclonal antibody

Catalog # PAB10325 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using CDC16 (phospho T580) polyclonal antibody (Cat # PAB10325) shows detectionof a band ~ 72 KDa corresponding to phosphorylated human CDC16 (arrowhead lane 1).
Lane 1 -nocodazole treated HeLa whole cell lysate.
Lane 2 -Reactivity is not seen in lysates from asynchronous HeLa whole cell cultures.
Each lane contains approximately 35 ug of lysates, separated by 4-20% SDS-PAGE Tris-HEPES and then transferred to nitrocellulose.
After blocking the membrane was probed with the primary antibody diluted to 1 : 1,000 overnight at 4°C followed by washes and reaction with a 1 : 10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDC16.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding T580 of human CDC16.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to phosphorylated human APC6 protein at the pT580 residue. This antibody is expected to react with all isoforms of this protein. Minimal reactivity is expected with the non-phosp horylated form of the protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:1000-1:10000) Western Blot (1:500-1:3000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CDC16

Entrez GeneID	8881
Protein Accession#	Q13042
Gene Name	CDC16
Gene Alias	APC6
Gene Description	cell division cycle 16 homolog (S. cerevisiae)
Omim ID	603461
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a component protein of the APC complex, which is composed of eight protein s and functions as a protein ubiquitin ligase. The APC complex is a cyclin degradation system tha t governs exit from mitosis. Each component protein of the APC complex is highly conserved amo ng eukaryotic organisms. This protein and two other APC complex proteins, CDC23 and CDC27, contain a tetratricopeptide repeat (TPR), a protein domain that may be involved in protein-protein interaction. Multiple alternatively spliced variants, encoding the same protein, have been identified . [provided by RefSeq
Other Designations	anaphase-promoting complex, subunit 6

Publication Reference

- Mammalian p55CDC mediates association of the spindle checkpoint protein Mad2 with the cyclosome/anaphase-promoting complex, and is involved in regulating anaphase onset and late mitotic events.

  Kallio M, Weinstein J, Daum JR, Burke DJ, Gorbsky GJ.

  The Journal of Cell Biology 1998 Jun; 14(6):1393.

- The serine/threonine phosphatase PP5 interacts with CDC16 and CDC27, two tetratricopeptide repeat-containing subunits of the anaphase-promoting complex.

  Ollendorff V, Donoghue DJ.

  The Journal of Biological Chemistry 1997 Dec; 272(51):32011.

- CDC27Hs colocalizes with CDC16Hs to the centrosome and mitotic spindle and is essential for the metaphase to anaphase transition.

  Tugendreich S, Tomkiel J, Earnshaw W, Hieter P.

  Cell 1995 Apr; 81(2):261.

Pathway

- Cell cycle
- Ubiquitin mediated proteolysis

Disease

- Adenocarcinoma
- Genetic Predisposition to Disease

- Pancreatic Neoplasms