

**Anti-APC6 pT580 (RABBIT) Antibody**  
**APC6 phospho T580 Antibody**  
**Catalog # ASR5310****Specification**

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**Anti-APC6 pT580 (RABBIT) Antibody - Product Information**

|                  |  |
|------------------|--|
| Host             | Rabbit   |
| Conjugate        | Unconjugated   |
| Target Species   | Human  |
| Reactivity       | Human  |
| Clonality        | Polyclonal   |
| Application      | WB, E, I, LCI  |
| Application Note | This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band ~ 72 kDa, 71.5 kDa or 65.9 kDa in size corresponding to isoforms of APC6 by western blotting in the appropriate cell lysate or extract. |
| Physical State   | Liquid (sterile filtered)  |
| Buffer           | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2   |
| Immunogen        | This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region surrounding pT580 of Human Apc6 protein.  |
| Preservative     | 0.01% (w/v) Sodium Azide   |

**Anti-APC6 pT580 (RABBIT) Antibody - Additional Information****Gene ID** 8881**Other Names**  
8881**Purity**

This product is an affinity purified antibody produced by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. This antibody is specific for phosphorylated human APC6 protein at the pT580 residue. BLAST analysis indicates 100 % homology of the immunizing sequence with APC6 from human. No cross reactivity is expected against homologues from other sources. This antibody is expected to react with all isoforms of this protein. Minimal reactivity is expected with the non-phosphorylated form of the protein.

**Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended

storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-APC6 pT580 (RABBIT) Antibody - Protein Information**

**Name** CDC16

**Synonyms** ANAPC6

**Function**

Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle (PubMed:<a href="http://www.uniprot.org/citations/18485873" target="\_blank">18485873</a>). The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (PubMed:<a href="http://www.uniprot.org/citations/18485873" target="\_blank">18485873</a>). The APC/C complex catalyzes assembly of branched 'Lys-11'-/'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed:<a href="http://www.uniprot.org/citations/29033132" target="\_blank">29033132</a>).

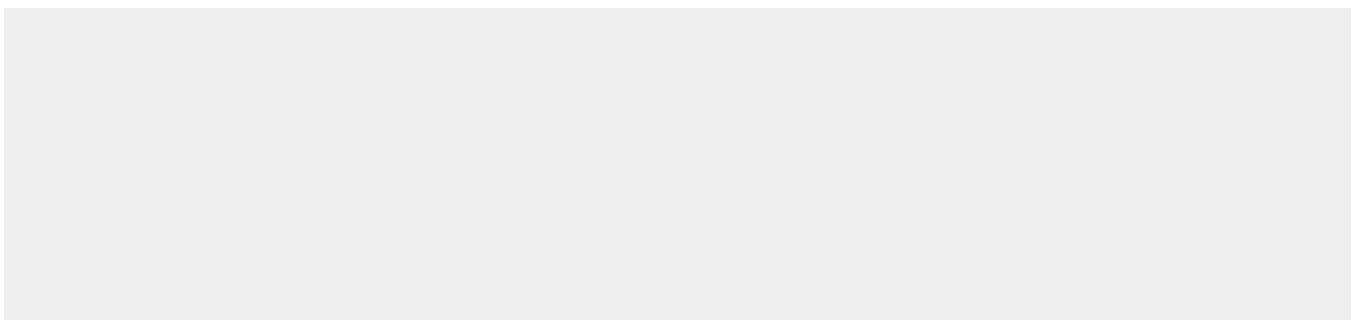
**Cellular Location**

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Note=Colocalizes with CDC27 to the centrosome at all stages of the cell cycle and to the mitotic spindle.

**Anti-APC6 pT580 (RABBIT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-APC6 pT580 (RABBIT) Antibody - Images**



Western blot using Rockland's Affinity Purified anti-APC6 pT580 antibody shows detection of a band ~72 kDa corresponding to phosphorylated human APC6 (arrowhead lane 1). Lane 1 - nocodazole treated HeLa whole cell lysate (p/n W09-001-A81). Lane 2 - Reactivity is not seen in lysates from asynchronous HeLa whole cell cultures (p/n W09-000-364). Each lane contains approximately 35ug 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 (p/n 611-132-122) for 45 min at room temperature. IRDye™ 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

#### **Anti-APC6 pT580 (RABBIT) Antibody - Background**

APC6 (also known as Cell division cycle protein 16 homolog (CDC16Hs), anaphase promoting complex subunit 6, and cyclosome subunit 6) is a component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle. The APC/C is composed of at least 11 subunits. APC6 interacts with PPP5C and CDC20. This protein colocalizes with CDC27 to the centrosome at all stages of the cell cycle and to the mitotic spindle. Splice variants have been described for this protein.