

**Anti-APC1 pS377 (RABBIT) Antibody**  
**APC1 phospho S377 Antibody**  
**Catalog # ASR5311****Specification**

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**Anti-APC1 pS377 (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	This affinity purified antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band ~ 215 kDa in size corresponding to APC1 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 pS377 of Human Apc1 protein.
Preservative	0.01% (w/v) Sodium Azide

**Anti-APC1 pS377 (RABBIT) Antibody - Additional Information****Gene ID** 64682**Other Names**  
64682**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 APC1 protein at the pS377 residue. A BLAST analysis was used to suggest reactivity with this protein from human, dog, rat, and bovine based on 100% homology for the immunogen sequence. Cross reactivity with APC1 protein from mouse is expected, as this sequence show 90% homologous between human and mouse. Cross reactivity with APC1 homologues from other sources has not been determined. 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-APC1 pS377 (RABBIT) Antibody - Protein Information

**Name** ANAPC1

**Synonyms** TSG24

#### Function

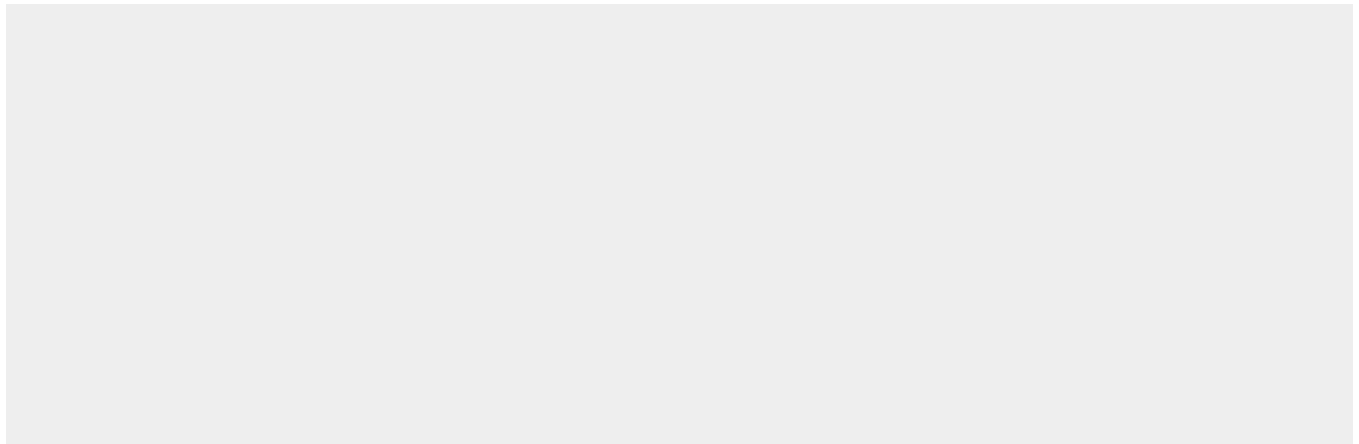
Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle (PubMed:<a href="http://www.uniprot.org/citations/18485873" target="\_blank">18485873</a>). The APC/C complex acts by 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>).

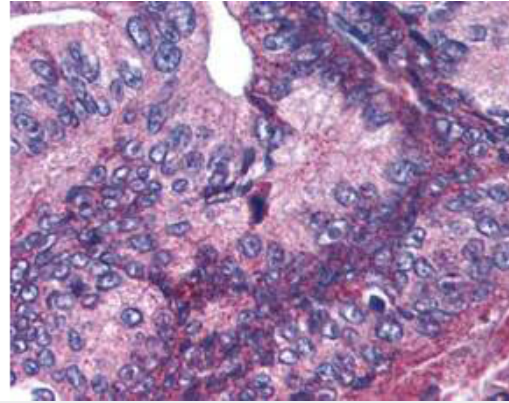
### Anti-APC1 pS377 (RABBIT) Antibody - Protocols

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-APC1 pS377 (RABBIT) Antibody - Images





Rockland's affinity purified anti-APC1 pS377 antibody was used at 5.0  $\mu\text{g/ml}$  to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderate positive cytoplasmic and occasional nuclear staining of pancreatic carcinoma cells at 60X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.

#### **Anti-APC1 pS377 (RABBIT) Antibody - Background**

APC1 (also known as Anaphase promoting complex subunit 1, Cyclosome subunit 1, Protein Tsg24, Mitotic checkpoint regulator and ANAPC1) is 1 of at least 11 subunits of the anaphase-promoting complex (APC), which functions at the metaphase-to-anaphase transition of the cell cycle and is regulated by spindle checkpoint proteins. The APC is an E3 ubiquitin ligase that targets cell cycle regulatory proteins for degradation by the proteasome, thereby allowing progression through the cell cycle.