

Basic Information

Product Name	Anti-APC1/ANAPC1 (Phospho-S355) Antibody
Gene Name	ANAPC1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	ELISA, IHC, WB
Contents	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
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.
Concentration	0.21 mg/mL by UV absorbance at 280 nm
Purification	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.
Dilution Ratios	ELISA: 1:2,000 - 1:10,000 IHC: 5.0 µg/ml WB: 1:200 - 1:1,000

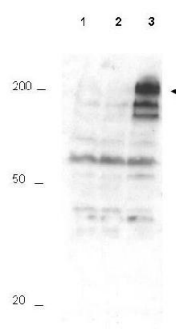
Storage

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. Expiration date is one (1) year from date of opening.

Background Information

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.

Selected Validation Data



Western blot analysis of phosphorylated APC1 expression in lysate from asynchronous cells (lane 1), lysate from cells treated with thymidine to synchronize cells at the G1/S boundary (lane 2) and lysate from cells treated with nocodazole to synchronize cells at the M phase (lane 3). Phosphorylated APC1 is mostly present only in cell preparations arrested at cell division. Phosphorylated APC1 at 215KD was detected using rabbit anti-APC1 pS355 Antigen Affinity purified polyclonal antibody (Catalog # P03471) at 1:500. Data contributed by Bing Li, UT Southwestern.