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Datasheet for 600-401-856

APC1 phospho S355 Antibody

Overview

Description:	Anti-APC1 pS355 (RABBIT) Antibody - 600-401-856
Item No.:	600-401-856
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-APC1 pS355 Antibody, Anaphase-promoting complex subunit 1, APC-1, APC 1, Cyclosome subunit 1, Testis-specific gene 24 protein, Mitotic checkpoint regulator
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ANAPC1, TSG24
Reactivity:	Human
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 350-375 of Human Apc1 protein.
Purity/Specificity:	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 pS355 residue. A BLAST analysis was used to suggest reactivity with this protein from human, mouse, dog, rat, and bovine based on 100% homology for the immunogen sequence. Cross reactivity with APC1 protein from chimpanzee and chicken is expected as the sequence of the immunogen only varies by one amino acid in from these sources (89% homology). Cross reactivity with APC1 homologues from other sources has not been determined. Minimal reactivity is expected with the non-phosphorylated form of the protein.
Relevant Links:	• NCBI - 12056971 • UniProtKB - Q9H1A4 • GeneID - 64682

Application Details

Tested Applications:	ELISA, WB
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 ~ 215 kDa in size corresponding to APC1 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:35,000
IP:	1:100
WB:	1:200 - 1:2,000

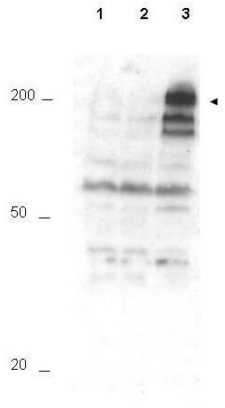
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot using Rockland's Affinity Purified anti-APC1 pS355 antibody shows detection of a band ~215 kDa corresponding to phosphorylated human APC1 (arrowhead). Lane 1 shows lysate from asynchronous cells. Lane 2 shows lysate from cells treated with thymidine to synchronize cells at the G1/S boundary. Lane 3 shows lysate from cells treated with nocodazole to synchronize cells at the M phase. Phosphorylated APC1 is mostly present only in cell preparations arrested at cell division. Each lane contains approximately 30 µg of HeLa S3 whole cell lysates separated by 12.5% SDS-PAGE followed by transfer to nitrocellulose. After blocking with 5% non-fat dry milk in TTBS, the membrane was probed with the primary antibody diluted to 1:500 for 1 h at room temperature followed by washes and reaction with a 1:5,000 dilution of HRP Gt-a-Rabbit IgG [H&L] MX (611-103-122) for 45 min at room temperature. ECL reagent was used for detection. Other detection systems will yield similar results. Data contributed by Bing Li, UT Southwestern.

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