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Datasheet for 600-401-Y36

APC7 Antibody

Overview

Description:	Anti-APC7 (RABBIT) Antibody - 600-401-Y36
Item No.:	600-401-Y36
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Cell cycle regulated protein ubiquitination and degradation within subcellular domains is thought to be essential for the normal progression of mitosis. APC7 is a highly conserved 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. APC/C is responsible for degrading anaphase inhibitors, mitotic cyclins, and spindle-associated proteins ensuring that events of mitosis take place in proper sequence. The individual APC/C components mRNA and protein levels are expressed at approximately the same levels in most tissues and cell lines, suggesting that they perform their functions as part of a complex. APC7 is required for proper protein ubiquitination function of APC/C and for the interaction of APC/C with various transcription coactivators.
Synonyms:	APC7 Antibody, APC7, APC7, Anaphase-promoting complex subunit 7, Cyclosome subunit 7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ANAPC7
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-APC7 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human APC7.
Purity/Specificity:	Anti-APC7 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with APC7 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9UJX3 • GeneID - 51434 • NCBI - NP_057322

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-APC7 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Expect a band at approximately 67 kDa in Western Blots of specific cell lysates and tissues. Western Blot in human samples and Immunofluorescence in rat samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
WB:	1 - 2 µg/mL

Formulation

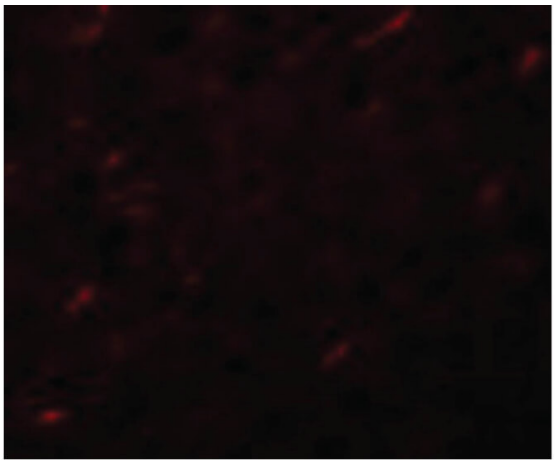
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

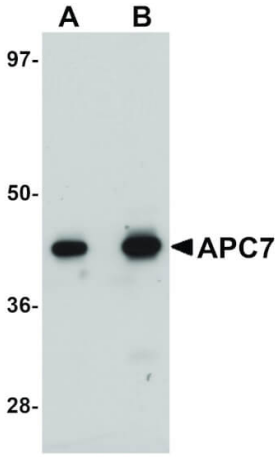
Shipping Condition:	Dry Ice

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



Immunofluorescence Microscopy
Immunofluorescence Microscopy of APC7 antibody. Tissue: Rat kidney tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: APC7 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: APC7 is nuclear and cytosolic. Staining: APC7 as red fluorescent signal.



Western Blot
Western Blot of APC7 antibody. Lane 1: Rat kidney tissue lysate with APC7 antibody at 1 µg/mL. Lane 2: Rat kidney tissue lysate with APC7 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 67 kDa, 43 kDa for APC7. Other band(s): APC7 splice variants and isoforms.

Disclaimer

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