

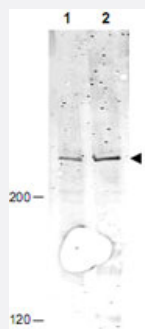
ANAPC1 (phospho S377) polyclonal antibody

Catalog # PAB9936

Size 100 ug

Applications

Western Blot (Cell lysate)



Western blot using ANAPC1 (phospho S377) polyclonal antibody (Cat # PAB9936) shows detection of a band ~215 KDa corresponding to phosphorylated human ANAPC1 (arrowhead).

Lane 1 shows lysate from asynchronous cells.

Lane 2 shows lysate from cells treated with nocodazole.

While some phosphorylated ANAPC1 is present in untreated cell, the amount of phosphorylated protein is increased in cell preparations arrested in mitosis.

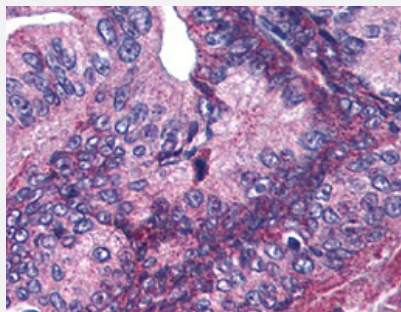
Each lane contains approximately 30 ug of HeLa whole cell lysates, separated by 4-8% SDS-PAGE followed by transfer to nitrocellulose.

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 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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunohistochemistry of ANAPC1 (phospho S377) polyclonal antibody (Cat # PAB9936) was used at 5.0 ug/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, Life Span Biosciences, Seattle, WA.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of ANAPC1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S377 of human ANAPC1.
Host	Rabbit
Reactivity	Bovine, Dog, Human, Mouse, Rat
Specificity	This antibody is specific to phosphorylated human APC1 protein at the pS377 residue.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:200-1:1000) Immunohistochemistry (5.0 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ANAPC1

Entrez GeneID [64682](#)

Protein Accession# [Q9H1A4;NP_073153](#)

Gene Name ANAPC1

Gene Alias APC1, MCPR, TSG24

Gene Description anaphase promoting complex subunit 1

Omim ID [608473](#)

Gene Ontology [Hyperlink](#)

Gene Summary ANAPC1 is 1 of at least 10 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.[supplied by OMIM]

Other Designations anaphase-promoting complex 1 (meiotic checkpoint regulator)

Publication Reference

- [Mitotic regulation of the human anaphase-promoting complex by phosphorylation.](#)

Kraft C, Herzog F, Gieffers C, Mechtler K, Hagting A, Pines J, Peters JM.

The EMBO Journal 2003 Dec; 22(24):6598.

Application: CyTOF, Human, HeLa cells

- [Characterisation of the human APC1, the largest subunit of the anaphase-promoting complex.](#)

Jørgensen PM, Gräslund S, Betz R, Ståhl S, Larsson C, Höög C.

Gene 2001 Jan; 262(1-2):51.

Pathway

- [Cell cycle](#)
- [Ubiquitin mediated proteolysis](#)