

Rabbit anti-Human Apc5/ANAPC5 Polyclonal Antibody | anti-ANAPC5 antibody

Anti-Apc5/ANAPC5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125800	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Apc5/ANAPC5; Polyclonal Antibody; Anti-Apc5/ANAPC5 Antibody; Anapc5; MNCb-2778; Anaphase-promoting complex subunit 5; APC5; Cyclosome subunit 5; anaphase promoting complex subunit 5; anti-ANAPC5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Apc5/ANAPC5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-ANAPC5 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Apc5/ANAPC5 recombinant protein (Position: M1-D266).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of 293T cells using anti-Apc5/ANAPC5 antibody (AAA125800). Overlay histogram showing 293T cells stained with AAA125800 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Apc5/ANAPC5 Antibody (AAA125800, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Apc5/ANAPC5 using anti-Apc5/ANAPC5 antibody (AAA125800). Apc5/ANAPC5 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-Apc5/ANAPC5 Antibody (AAA125800) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Apc5/ANAPC5 using anti-Apc5/ANAPC5 antibody (AAA125800). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HL-60 whole cell lysates Lane 2: human HEK293 whole cell lysates Lane 3: human K562 whole cell lysates Lane 4: human Jurkat whole cell lysates Lane 5: human Raji whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Apc5/ANAPC5 antigen affinity purified polyclonal antibody (Catalog # AAA125800) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Apc5/ANAPC5 at approximately 85KD. The expected band size for Apc5/ANAPC5 is at 85KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ANAPC5 antibody	Anaphase-promoting complex subunit 5 is an enzyme that in humans is encoded by the ANAPC5 gene. This gene encodes a tetratricopeptide repeat-containing component of the anaphase promoting complex/cyclosome (APC/C), a large E3 ubiquitin ligase that controls cell cycle progression by targeting a number of cell cycle regulators such as B-type cyclins for 26S proteasome-mediated degradation through ubiquitination. The encoded protein is required for the proper ubiquitination function of APC/C and for the interaction of APC/C with transcription coactivators. It also interacts with polyA binding protein and represses internal ribosome entry site-mediated translation. Multiple transcript variants encoding different isoforms have been found for this gene. These differences cause translation initiation at a downstream AUG and result in a shorter protein (isoform b), compared to isoform a.
References	1. Jorgensen, P. M., Graslund, S., Betz, R., Stahl, S., Larsson, C., Hoog, C. Characterisation of the human APC1, the largest subunit of the anaphase-promoting complex. <i>Gene</i> 262: 51-59, 2001. 2. Turnell, A. S., Stewart, G. S., Grand, R. J. A., Rookes, S. M., Martin, A., Yamano, H., Elledge, S. J., Gallimore, P. H. The APC/C and CBP/p300 cooperate to regulate transcription and cell-cycle progression. <i>Nature</i> 438: 690-695, 2005. 3. Yu, H., Peters, J. -M., King, R. W., Page, A. M., Hieter, P., Kirschner, M. W. Identification of a cullin homology region in a subunit of the anaphase-promoting complex. <i>Science</i> 279: 1219-1222, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	213385323
NCBI GeneID	51433
NCBI Accession #	NP_001131031.1
NCBI GenBank Nucleotide #	NM_001137559.1
UniProt Accession #	Q9UJX4; Q8N4H7; Q9BQD4; E9PFB2
Molecular Weight	85,077 Da
NCBI Official Full Name	anaphase-promoting complex subunit 5 isoform b
NCBI Official Synonym Full Names	anaphase promoting complex subunit 5
NCBI Official Symbol	ANAPC5
NCBI Official Synonym Symbols	APC5
NCBI Protein Information	anaphase-promoting complex subunit 5; cyclosome subunit 5
UniProt Protein Name	Anaphase-promoting complex subunit 5
UniProt Gene Name	ANAPC5

UniProt Synonym Gene Names	APC5; APC5
UniProt Entry Name	APC5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/apc5-anapc5-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125800>