Rabbit ANAPC2 Polyclonal Antibody | anti-ANAPC2 antibody

Anti-ANAPC2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125769	**Rabbit**	**Human, Mouse, Rat, Monkey**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

ANAPC2; Polyclonal Antibody; Anti-ANAPC2 Antibody; APC2; KIAA1406; Anaphase-promoting complex subunit 2; Cyclosome subunit 2; anaphase promoting complex subunit 2; anti-ANAPC2 antibody

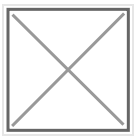
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for ANAPC2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-ANAPC2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human ANAPC2 recombinant protein (Position: K51-R272).
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

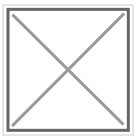
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of THP-1 cells using anti-ANAPC2 antibody (AAA125769).Overlay histogram showing THP-1 cells stained with AAA125769 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ANAPC2 Antibody (AAA125769, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 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.

IHC (Immunohistochemisry)
Figure 3. IHC analysis of ANAPC2 using anti-ANAPC2 antibody (AAA125769).ANAPC2 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-ANAPC2 Antibody (AAA125769) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IF (Immunofluorescence)

Figure 2. IF analysis of ANAPC2 using anti- ANAPC2 antibody (AAA125769).ANAPC2 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- ANAPC2 Antibody (AAA125769) overnight at 4 degree C. DyLight®488 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 ANAPC2 using anti-ANAPC2 antibody (AAA125769).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 HEK293 whole cell lysatesLane 2: human Jurkat whole cell lysatesLane 3: human HEPG2 whole cell lysatesLane 4: human HELA whole cell lysatesLane 5: monkey COS-7 whole cell lysatesLane 6: human A549 whole cell lysatesLane 7: human PC-3 whole cell lysatesLane 8: rat stomach tissue lysatesLane 9: rat testis tissue lysatesLane 10: rat lung tissue lysatesLane 11: rat PC-12 whole cell lysatesLane 12: mouse stomach tissue lysatesLane 13: mouse lung tissue lysatesLane 14: mouse RAW264. 7 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-ANAPC2 antigen affinity purified polyclonal antibody (Catalog # AAA125769) 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 ANAPC2 at approximately 110KD. The expected band size for ANAPC2 is at 94KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ANAPC2 antibody	Anaphase-promoting complex subunit 2 is an enzyme that in humans is encoded by the ANAPC2 gene. A large protein complex, termed the anaphase-promoting complex (APC), or the cyclosome, promotes metaphase-anaphase transition by ubiquitinating its specific substrates such as mitotic cyclins and anaphase inhibitor, which are subsequently degraded by the 26S proteasome. Biochemical studies have shown that the vertebrate APC contains eight subunits. The composition of the APC is highly conserved in organisms from yeast to humans. The product of this gene is a component of the complex and shares sequence similarity with a recently identified family of proteins called cullins, which may also be involved in ubiquitin-mediated degradation.
References	1. Dube, P., Herzog, F., Gieffers, C., Sander, B., Riedel, D., Muller, S. A., Engel, A., Peters, J. -M., Stark, H. Localization of the coactivator Cdh1 and the cullin subunit Apc2 in a cryo-electron microscopy model of vertebrate APC/C. Molec. Cell 20: 867-879, 2005. 2. 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. Gene 262: 51-59, 2001. 3. Morgan, D., Eley, L., Sayer, J., Strachan, T., Yates, L. M., Craighead, A. S., Goodship, J. A. Expression analyses and interaction with the anaphase promoting complex protein Apc2 suggest a role for inversin in primary cilia and involvement in the cell cycle. Hum. Molec. Genet. 11: 3345-3350, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37537863
NCBI GeneID	29882
UniProt Accession #	Q9UJX6; Q5VSG1; Q96DG5; Q96GG4; Q9P2E1
Molecular Weight	93,828 Da
NCBI Official Full Name	Anaphase-promoting complex subunit 2
NCBI Official Synonym Full Names	anaphase promoting complex subunit 2
NCBI Official Symbol	ANAPC2
NCBI Official Synonym Symbols	APC2; RP11-350O14.5
NCBI Protein Information	anaphase-promoting complex subunit 2; OTTHUMP00000022692; cyclosome subunit 2
UniProt Protein Name	Anaphase-promoting complex subunit 2
UniProt Gene Name	**ANAPC2**

UniProt Synonym Gene Names	APC2; KIAA1406
UniProt Entry Name	ANC2_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.

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