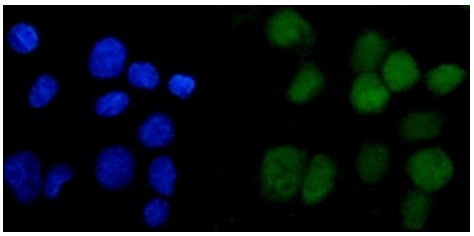
ANAPC2 Antibody / APC2 (RQ6162)

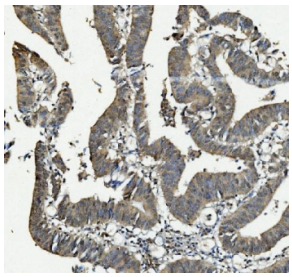
Catalog No.	Formulation	Size
RQ6162	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

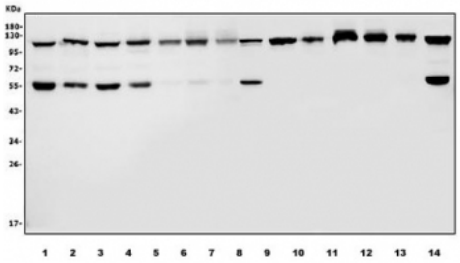
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UJX6
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This ANAPC2 antibody is available for research use only.



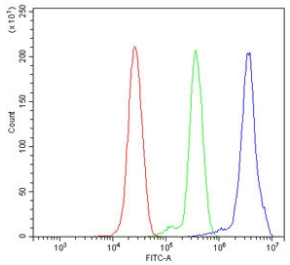
Immunofluorescent staining of FFPE human A431 cells with ANAPC2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human rectal cancer with ANAPC2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HEK293, 2) human Jurkat, 3) human HepG2, 4) human HeLa, 5) monkey COS-7, 6) human A549, 7) human PC-3, 8) rat stomach, 9) rat testis, 10) rat lung, 11) rat PC-12, 12) mouse stomach, 13) mouse lung and 14) mouse RAW264.7 lysate with ANAPC2 antibody. N-terminal ANAPC2 antibodies generally show three bands above 200 kDa and may show three degradation or splice variant forms at ~121, 81 and 51 kDa (Ref. 1).



Flow cytometry testing of human ThP-1 cells with ANAPC2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ANAPC2 antibody.

Description

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.

Application Notes

Optimal dilution of the ANAPC2 antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids K51-R272) was used as the immunogen for the ANAPC2 antibody.

Storage

After reconstitution, the ANAPC2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (1)

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