

Mouse Monoclonal Antibody to ANAPC10
Purified Mouse Monoclonal Antibody
Catalog # AO2469a**Specification**

Mouse Monoclonal Antibody to ANAPC10 - Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	O9UM13
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	21.3kDa KDa

Description

ANAPC10 is a core subunit of the anaphase-promoting complex (APC), or cyclosome, a ubiquitin protein ligase that is essential for progression through the cell cycle. APC initiates sister chromatid separation by ubiquitinating the anaphase inhibitor securin (PTTG1; MIM 604147) and triggers exit from mitosis by ubiquitinating cyclin B (CCNB1; MIM 123836), the activating subunit of cyclin-dependent kinase-1 (CDK1; MIM 116940) (summary by Wendt et al., 2001 [PubMed 11524682]).;

Immunogen

Purified recombinant fragment of human ANAPC10 (AA: 1-185) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

Application Note

ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Mouse Monoclonal Antibody to ANAPC10 - Additional Information

Gene ID 10393

Other Names

DOC1; APC10

Dilution

WB~~1:1000
IHC~~1:100~500
FC~~1:10~50
ICC~~N/A
E~~N/A

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Monoclonal Antibody to ANAPC10 is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to ANAPC10 - Protein Information

Name ANAPC10

Synonyms APC10

Function

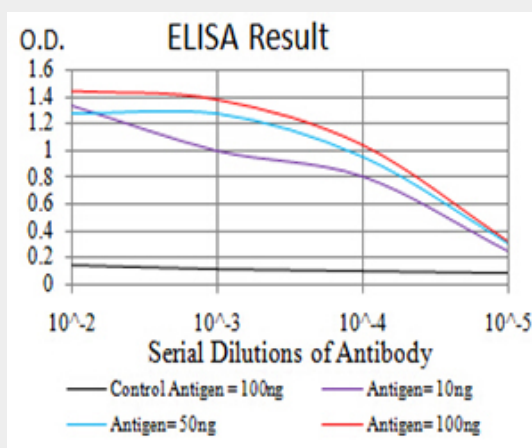
Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle (PubMed:18485873). The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (PubMed:18485873). The APC/C complex catalyzes assembly of branched 'Lys-11'-/'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed:29033132).

Mouse Monoclonal Antibody to ANAPC10 - Protocols

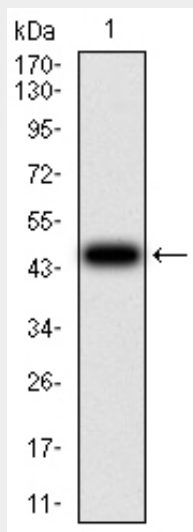
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

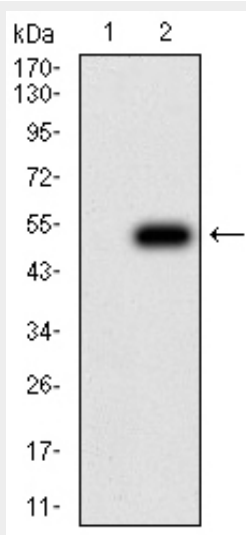
Mouse Monoclonal Antibody to ANAPC10 - Images



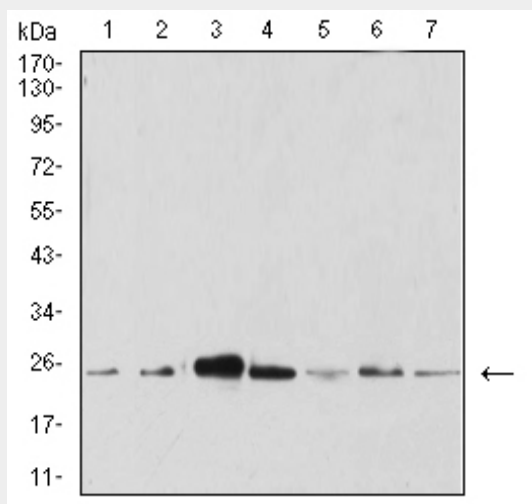
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



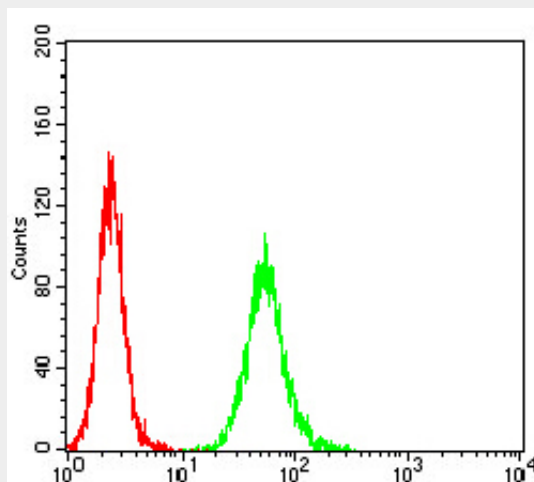
Western blot analysis using ANAPC10 mAb against human ANAPC10 (AA: 1-185) recombinant protein. (Expected MW is 47.2 kDa)



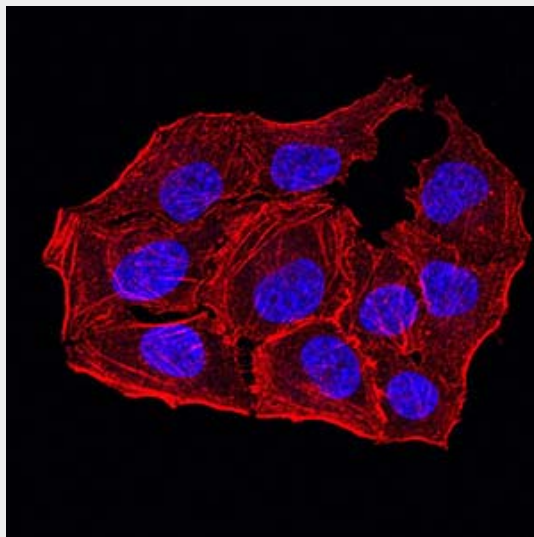
Western blot analysis using ANAPC10 mAb against HEK293 (1) and ANAPC10 (AA: 1-185)-hlgGfC transfected HEK293 (2) cell lysate.



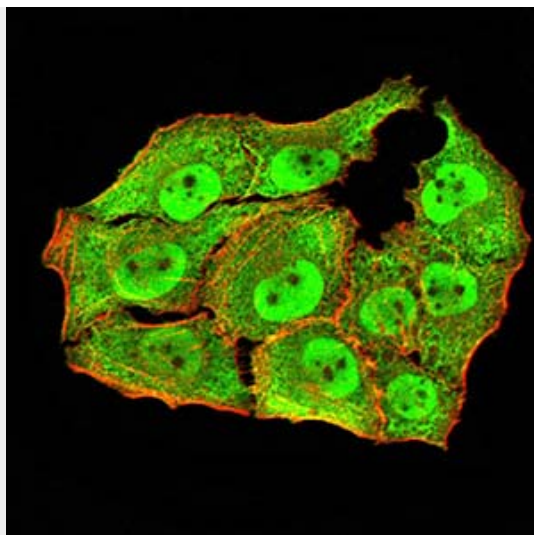
Western blot analysis using ANAPC10 mouse mAb against Hela (1), MCF-7 (2), SK-Br-3 (3), A431 (4), HEK293 (5), A549 (6), and SPC-A-1 (7) cell lysate.



Flow cytometric analysis of Hela cells using ANAPC10 mouse mAb (green) and negative control (red).



Immunofluorescence analysis of Hela cells using ANAPC10 mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



Immunofluorescence analysis of HeLa cells using ANAPC10 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher

Mouse Monoclonal Antibody to ANAPC10 - References

1.BMC Cell Biol. 2004 May 16;5:20. ; 2.Nat Struct Biol. 2001 Sep;8(9):784-8.;