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ANAPC1

Purified Mouse Monoclonal Antibody
Catalog # AO2609a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q9H1A4
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7G9B3
Isotype	Mouse IgG1
Calculated MW	216500
Immunogen	Purified recombinant fragment of human ANAPC1 (AA: 12-155) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	64682
Other Names	APC1; MCPR; TSG24
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~ 1/100 - 1/500 E~~ 1/10000
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	ANAPC1 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ANAPC1
Synonyms	TSG24
Function	Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through the cell cycle (PubMed:18485873, PubMed:27120157, PubMed:27509861). APC/C 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). APC/C catalyzes assembly of branched

'Lys-11'-/'Lys- 48'-linked branched ubiquitin chains on target proteins (PubMed:29033132). APC/C is activated by CDC20 in the metaphase/anaphase transition of the cell cycle, targeting the degradation of cyclin B and securin (PubMed:27120157, PubMed:27509861). APC/C is regulated by the mitotic checkpoint complex (MCC), which inhibits APC/C and delays chromosome segregation (PubMed:27509861).

References

1.Drug Alcohol Depend. 2012 Aug 1;124(3):325-32.2.Braz J Med Biol Res. 2008 Jun;41(6):539-43.

Images

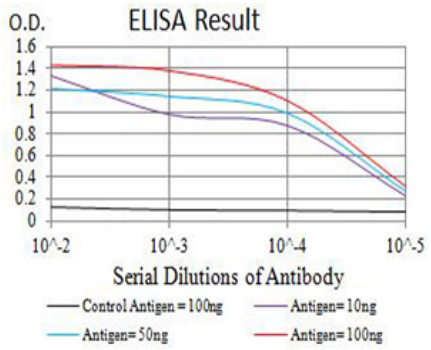


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

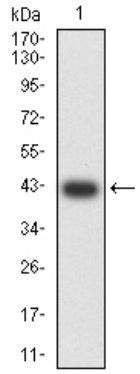


Figure 2:Western blot analysis using ANAPC1 mAb against human ANAPC1 (AA: 12-155) recombinant protein. (Expected MW is 41.9 kDa)

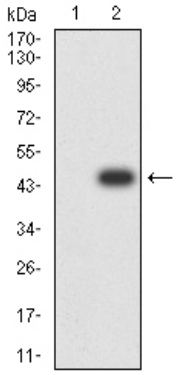
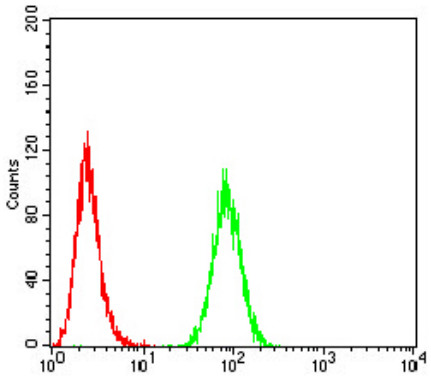


Figure 3:Western blot analysis using ANAPC1 mAb against HEK293 (1) and ANAPC1 (AA: 12-155)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 5:Flow cytometric analysis of Hela cells using ANAPC1 mouse mAb (green) and negative control (red).



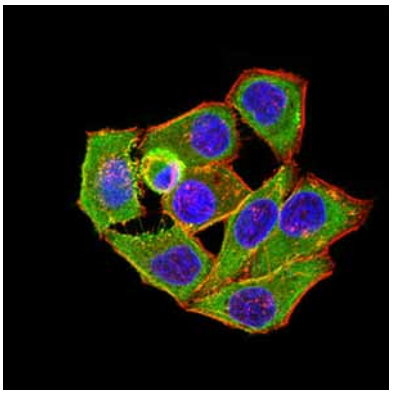


Figure 4:Immunofluorescence analysis of Hela cells using ANAPC1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.