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Mouse Monoclonal Antibody to ANAPC11

Purified Mouse Monoclonal Antibody
Catalog # AO2458a

Product Information

Application	WB, FC, E
Primary Accession	Q9NYG5
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6F1H6
Isotype	Mouse IgG1
Calculated MW	9841
Description	ANAPC11 (Anaphase Promoting Complex Subunit 11) is a Protein Coding gene. Among its related pathways are Immune System and Cellular Senescence. GO annotations related to this gene include ubiquitin-protein transferase activity and ubiquitin-ubiquitin ligase activity.;
Immunogen	Purified recombinant fragment of human ANAPC11 (AA: 1-196) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Additional Information

Gene ID	51529
Other Names	APC11; Apc11p; HSPC214
Dilution	WB~~1:1000 FC~~1:10~50 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 ANAPC11 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ANAPC11
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:11739784, PubMed:18485873, PubMed:27120157, PubMed:27509861). Together with ANAPC2, forms the catalytic component of the E3 ubiquitin ligase complex (PubMed:11739784, 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:11739784, 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 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).

Cellular Location

Cytoplasm. Nucleus

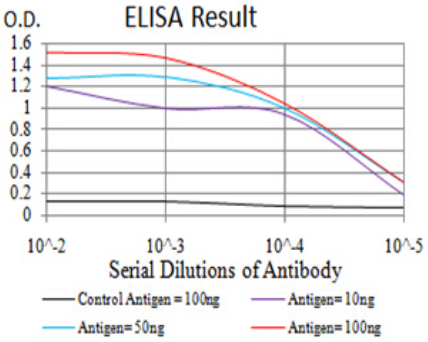
Tissue Location

Expressed at high levels in skeletal muscle and heart; in moderate levels in brain, kidney, and liver; and at low levels in colon, thymus, spleen, small intestine, placenta, lung and peripheral blood leukocyte.

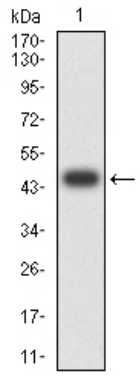
References

1.Genet Mol Res. 2012 Aug 24;11(3):2814-22. ; 2.Free Radic Biol Med. 2004 Aug 15;37(4):521-30.;

Images

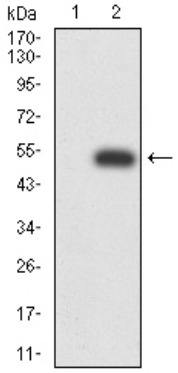


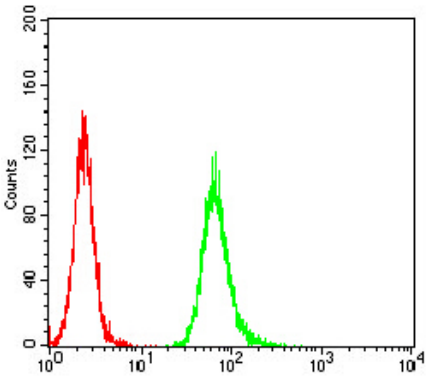
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using ANAPC11 mAb against human ANAPC11 (AA: 1-196) recombinant protein. (Expected MW is 46.6 kDa)

Western blot analysis using ANAPC11 mAb against HEK293 (1) and ANAPC11 (AA: 1-196)-hIgGFc transfected HEK293 (2) cell lysate.





Flow cytometric analysis of Hela cells using ANAPC11 mouse mAb (green) and negative control (red).

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