

APC2
Purified Mouse Monoclonal Antibody
Catalog # AO2739a**Specification**

APC2 - Product Information

Application	WB, IHC, ICC, E
Primary Accession	O95996
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	244kDa KDa

Immunogen

Purified recombinant fragment of human APC2 (AA: 2041-2181) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

APC2 - Additional Information

Gene ID 10297

Other Names

APCL

Dilution

WB~~ 1/500 - 1/2000

IHC~~ 1/200 - 1/1000

ICC~~ 1/200 - 1/1000

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

APC2 is for research use only and not for use in diagnostic or therapeutic procedures.

APC2 - Protein Information

Name APC2 ([HGNC:24036](#))

Synonyms APCL

Function

Stabilizes microtubules and may regulate actin fiber dynamics through the activation of Rho family

GTPases (PubMed:25753423). May also function in Wnt signaling by promoting the rapid degradation of CTNNB1 (PubMed:10021369, PubMed:11691822, PubMed:9823329).

Cellular Location

Cytoplasm, cytoskeleton. Golgi apparatus. Cytoplasm Cytoplasm, perinuclear region
Note=Associated with actin filaments (PubMed:11691822, PubMed:25753423). Associated with microtubule network (PubMed:10644998, PubMed:11691822, PubMed:25753423).

Tissue Location

Widely expressed (at protein level). Specifically expressed in the CNS.

APC2 - 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](#)

APC2 - Images

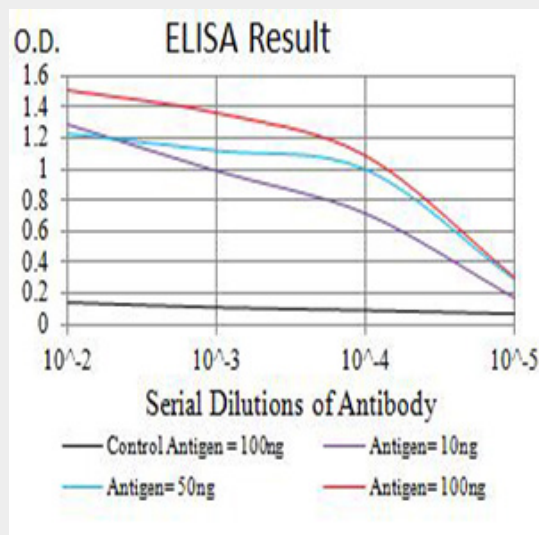


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

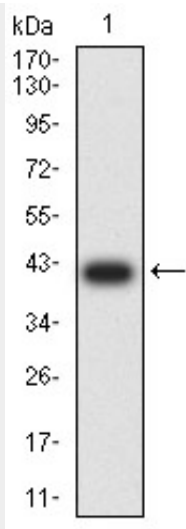


Figure 2: Western blot analysis using APC2 mAb against human APC2 (AA: 2041-2181) recombinant protein. (Expected MW is 40.9 kDa)

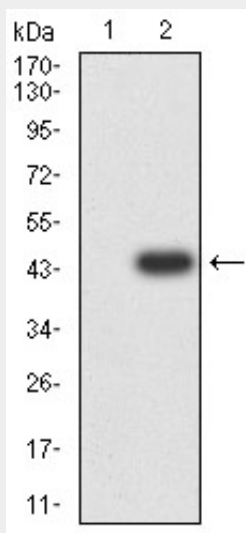


Figure 3: Western blot analysis using APC2 mAb against HEK293 (1) and APC2 (AA: 2041-2181)-hlgGfC transfected HEK293 (2) cell lysate.

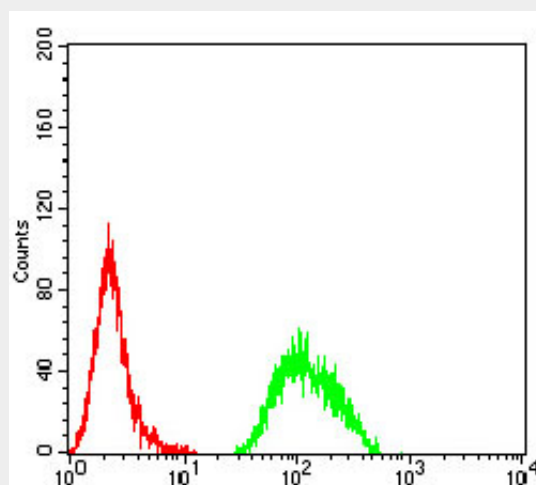


Figure 5: Flow cytometric analysis of HeLa cells using APC2 mouse mAb (green) and negative

control (red).

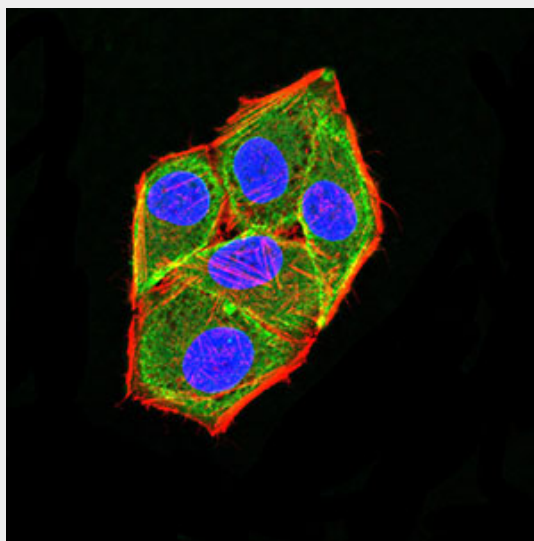


Figure 4: Immunofluorescence analysis of HeLa cells using APC2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

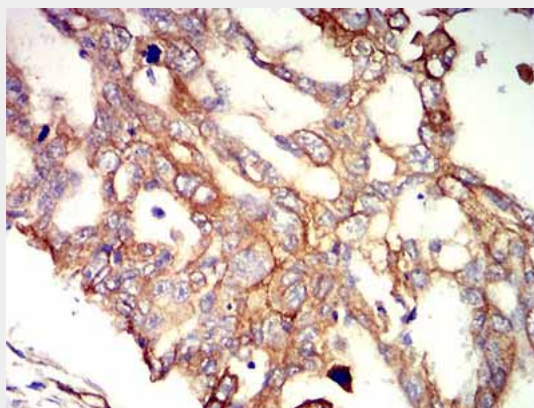


Figure 6: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using APC2 mouse mAb with DAB staining.

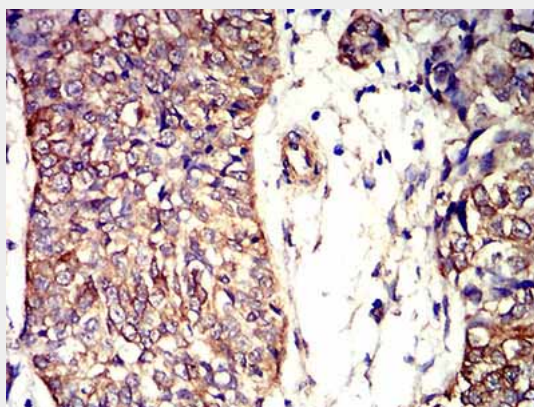


Figure 7: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using APC2 mouse mAb with DAB staining.

APC2 - References

1.Cell Rep. 2015 Mar 3. pii: S2211-1247(15)00139-4.2.Cancer Res. 2000 Jan 1;60(1):101-5.