Anti-APC Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013774

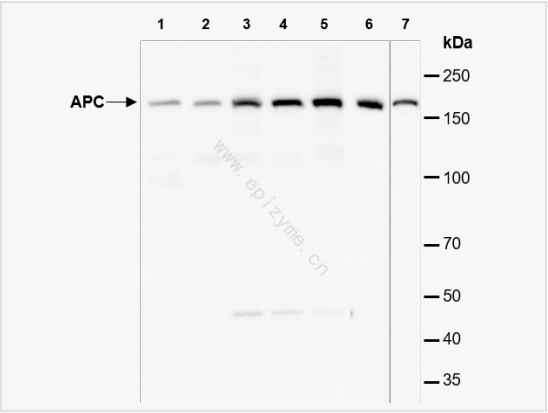
Product Information

Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA, WB
Reactivity	Human, Rat, Mouse
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	39M01D02
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human APC
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-APC Rabbit mAb [39M01D02] is for research use only and not for use in diagnostic or therapeutic procedures.

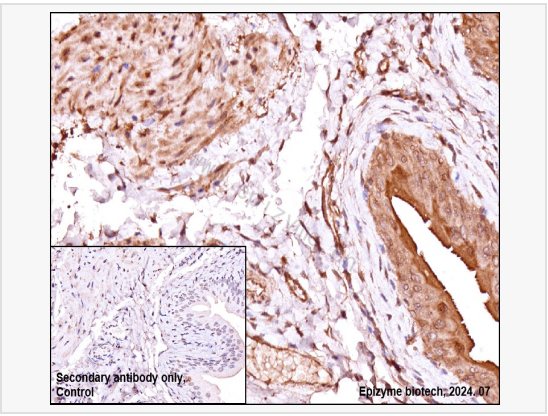
Protein Information

Synonyms	Adenomatous Polyposis Coli, Adenomatous polyposis coli protein, Apc, APC_HUMAN, CC1, Deleted in polyposis 2.5, DP2, DP2.5, DP3, FPC, GS, Protein APC.
Calculated MW	Calculated MW: 160 kDa; Observed MW: 160 kDa
Uniprot ID	P25054
Gene ID	324
Background	Tumor suppressor. Promotes rapid degradation of CTNNB1 and participates in Wnt signaling as a negative regulator. APC activity is correlated with its phosphorylation state. Activates the GEF activity of SPATA13 and ARHGEF4. Plays a role in hepatocyte growth factor (HGF)-induced cell migration. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex.
Cellular Location	Cell junction > adherens junction. Cytoplasm > cytoskeleton. Cell projection > lamellipodium. Cell projection > ruffle membrane. Cytoplasm. Cell membrane. Associated with the microtubule network at the growing distal tip of microtubules. Accumulates in the lamellipodium and ruffle membrane in response to hepatocyte growth factor (HGF) treatment. The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosophorylated form to the cell membrane.
Tissue Location	Expressed in a variety of tissues.

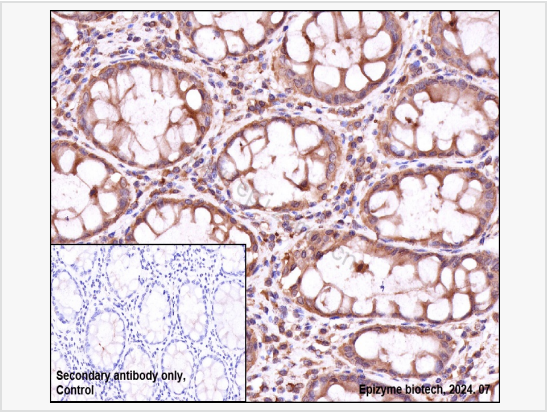
Validation Images



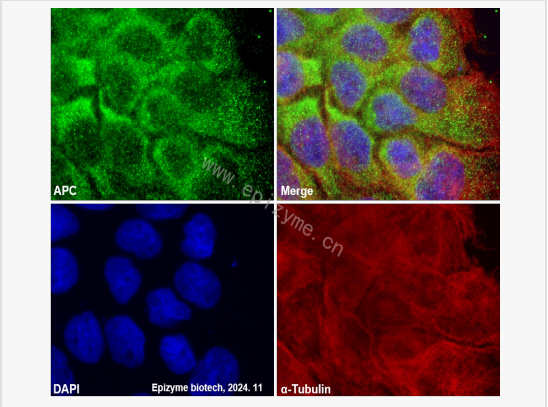
Western Blot - Anti-APC Rabbit mAb [39M01D02]
All lanes: R013774 at 1:5,000 dilution
Lane 1: A549 (human non-small cell lung cancer epithelial cell) whole cell lysates
Lane 2: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 3: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: T24 (human bladder cancer epithelial cell) whole cell lysates
Lane 5: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 6: Rat brain whole tissue lysates
Lane 7: Balb/c mouse lung whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 160 kDa
Observed band size: 160 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-APC Rabbit mAb [39M01D02]
Sample: Paraformaldehyde-fixed, paraffin embedded rat bladder tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013774 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-APC Rabbit mAb [39M01D02]
Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013774 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-APC Rabbit mAb [39M01D02]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013774 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).