For Research Use Only

APC Polyclonal antibody

Catalog Number:19782-1-AP 6 Publications

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Basic Information

Catalog Number:
19782-1-AP

Size:
900 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_000038

GeneID (NCBI):
324

UNIPROT ID:
P25054

Full Name:
adenomatous polyposis coli

Calculated MW:
312 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:20-1:200

Applications

Tested Applications:
IHC, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human breast cancer tissue, human colon tissue, human colon cancer tissue, human endometrial cancer tissue

Background Information

APC, also named as DP2.5, belongs to the adenomatous polyposis coli (APC) family. APC is a tumor suppressor that regulates cell division, helps ensure that the number of chromosomes in a cell is correct following cell division, and associates with other proteins involved in cell attachment and signaling. APC promotes rapid degradation of CTNNB1 and participates in Wnt signaling as a negative regulator. It plays a critical role in several cellular processes. APC regulates beta-catenin levels through Wnt-signaling and is involved in actin cytoskeletal integrity, cell-cell adhesion and cell migration. APC activity is correlated with its phosphorylation state. Defects in APC are a cause of familial adenomatous polyposis (FAP) which includes also Gardner syndrome (GS). Defects in APC are a cause of hereditary desmoid disease (HDD) which also known as familial infiltrative fibromatosis (FIF). Defects in APC are a cause of medulloblastoma (MDB) which is a malignant, invasive embryonal tumor of the cerebellum with a preferential manifestation in children. Defects in APC are a cause of mismatch repair cancer syndrome (MMRCS) which also known as Turcot syndrome or brain tumor-polyposis syndrome 1 (BTPS1).

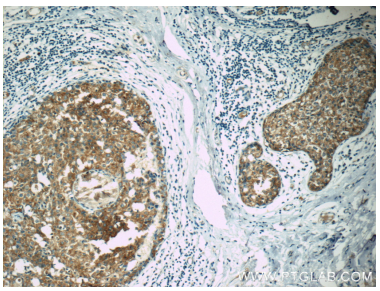
Notable Publications

Author	Pubmed ID	Journal	Application
Xiaobo Hu	31637871	Cancer Med	WB
Yang Zhou	31627092	Biomed Pharmacother	WB
Hongting Guo	34786330	J Bone Oncol	WB

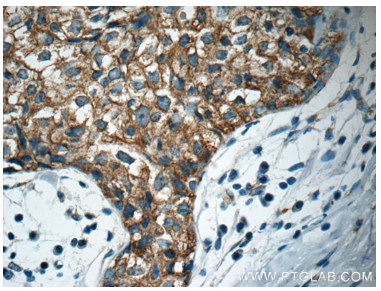
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 19782-1-AP (APC Antibody) at dilution of 1:50. Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



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