APC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APC, Polyclonal Antibody
Full Product Name	APC (Phospho Ser2054) Polyclonal Antibody
Product Gene Name	anti-APC antibody
Product Synonym Names	APC; DP2.5; Adenomatous polyposis coli protein; Protein APC; Deleted in polyposis 2.5
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	Phospho-APC (S2054) Polyclonal Antibody detects endogenous levels of APC protein only when phosphorylated at S2054.
Preparation and Storage	Store at -20 degree C for 1 year
Molecular Weight	311,646 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (112043202..112181936). Location: 5q21-q22
OMIM	114550
3D Structure	ModBase 3D Structure for P25054
Immunogen	The antiserum was produced against synthesized peptide derived from human APC around the phosphorylation site of Ser2054. AA range:2020-2069
Product Categories/Family for anti-APC antibody	Primary Antibodies
Applications Tested/Suitable for anti-APC antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF)(paraffin, section), ELISA (EIA)
Application Notes for anti-APC antibody	WB: 1/500-1/2000 IHC: 1/100-1/300 ELISA: 1/40000
Related Product Information for anti-APC antibody	APC, WNT signaling pathway regulator (APC), Homo sapiens. This gene encodes a tumor suppressor protein that acts as an antagonist of the Wnt signaling pathway. It is also involved in other processes including cell migration and adhesion, transcriptional activation, and apoptosis. Defects in this gene cause familial adenomatous polyposis (FAP), an autosomal dominant pre-malignant disease that usually progresses to malignancy. Disease-associated mutations tend to be clustered in a small region designated the mutation cluster region (MCR) and result in a truncated protein product. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of anti-APC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for APC purchase	MBS9459260 is an antibody targeting APC. Also known as APC (Phospho Ser2054) Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APC. It may not necessarily be applicable to this product.

NCBI GI #	53759122
NCBI GeneID	324
NCBI Accession #	NP_000029.2
UniProt Primary Accession #	P25054
UniProt Secondary Accession #	Q15162; Q15163; Q93042; D3DT03
UniProt Related Accession #	P25054
GenBank Nucleotide #	NM_000038.5
NCBI Official Full Name	adenomatous polyposis coli protein isoform b
NCBI Official Synonym Full Names	adenomatous polyposis coli
NCBI Official Symbol	APC
NCBI Official Synonym Symbols	GS; DP2; DP3; BTPS2; DP2.5; PPP1R46
UniProt Protein Name	Adenomatous polyposis coli protein
UniProt Synonym Protein Names	Deleted in polyposis 2.5
Protein Family	Adenomatous polyposis coli
UniProt Gene Name	APC
UniProt Synonym Gene Names	DP2.5; Protein APC
UniProt Entry Name	APC_HUMAN
NCBI Protein Information	adenomatous polyposis coli protein; deleted in polyposis 2.5; adenomatosis polyposis coli tumor suppressor; protein phosphatase 1, regulatory subunit 46
NCBI Summary for APC	This gene encodes a tumor suppressor protein that acts as an antagonist of the Wnt signaling pathway. It is also involved in other processes including cell migration and adhesion, transcriptional activation, and apoptosis. Defects in this gene cause familial adenomatous polyposis (FAP), an autosomal dominant pre-malignant disease that usually progresses to malignancy. Disease-associated mutations tend to be clustered in a small region designated the mutation cluster region (MCR) and result in a truncated protein product. [provided by RefSeq, Jul 2008]

UniProt Comments for APC	APC: a tumor suppressor. Defects in APC are a cause of familial adenomatous polyposis (FAP). Promotes rapid degradation of CTNNB1 and participates in Wnt signaling. Activity is correlated with its phosphorylation state. Two splice-variant isoforms have been described. Protein type: Motility/polarity/chemotaxis; Tumor suppressor Chromosomal Location of Human Ortholog: 5q21-q22 Cellular Component: centrosome; tight junction; cytosol; beta-catenin destruction complex; nucleoplasm; kinetochore; cell-cell adherens junction; lamellipodium; cytoplasmic microtubule; cytoplasm; plasma membrane; nucleus; lateral plasma membrane Molecular Function: microtubule plus-end binding; protein binding; cadherin binding; gamma-catenin binding; microtubule binding; beta-catenin binding; protein kinase regulator activity; protein kinase binding Biological Process: positive regulation of cell adhesion; somatic stem cell maintenance; apoptosis; positive regulation of apoptosis; positive regulation of microtubule polymerization; T cell differentiation in the thymus; Wnt receptor signaling pathway through beta-catenin; chromosome organization and biogenesis; cytoplasmic microtubule organization and biogenesis; muscle maintenance; anterior/posterior pattern formation; negative regulation of cell proliferation; regulation of osteoclast differentiation; hair follicle development; cytokinesis after mitosis; mitotic cell cycle spindle assembly checkpoint; positive regulation of epithelial cell differentiation; protein complex assembly; cell adhesion; cell cycle arrest; kidney development; proximal/distal pattern formation; cell structure disassembly during apoptosis; regulation of microtubule-based process; regulation of attachment of spindle microtubules to kinetochore; negative regulation of odontogenesis; cell migration; thymus development; regulation of osteoblast differentiation; negative regulation of MAPKKK cascade; negative regulation of microtubule depolymerization; axis specification; negative regulation of cyclin-dependent protein kinase activity; positive regulation of pseudopodium formation; axonogenesis; dorsal/ventral pattern formation; retina development in camera-type eye; positive regulation of cell division; positive regulation of protein catabolic process; regulation of nitrogen compound metabolic process; response to DNA damage stimulus; mitotic metaphase/anaphase transition; positive regulation of cell migration Disease: Familial Adenomatous Polyposis 1; Gastric Cancer; Desmoid Disease, Hereditary; Colorectal Cancer; Hepatocellular Carcinoma
Research Articles on APC	**1.** Membrane protrusions with APC/beta-catenin-containing puncta control the migratory potential and mesenchymal morphology of mammary tumor cells.
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