

Recombinant Mouse Apc Protein, His&SUMO-tagged

Cat. No. Apc-201M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Apc Protein (Ala2529-Ser2841) with N-His&SUMO tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ala2529-Ser2841
Description	Enables several functions, including beta-catenin binding activity; dynein complex binding activity; and enzyme binding activity. Involved in insulin receptor signaling pathway; positive regulation of cold-induced thermogenesis; and positive regulation of protein localization to centrosome. Acts upstream of or within several processes, including animal organ development; regionalization; and regulation of microtubule polymerization or depolymerization. Located in several cellular components, including axonal growth cone; cell projection membrane; and microtubule cytoskeleton. Part of Scrib-APC-beta-catenin complex. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; peripheral nervous system ganglion; and retina. Used to study breast cancer; familial adenomatous polyposis; gastrointestinal system cancer (multiple); and reproductive organ cancer (multiple). Human ortholog(s) of this gene implicated in several diseases, including carcinoma (multiple); endometrial cancer (multiple); familial adenomatous polyposis 1; hereditary desmoid disease; and medulloblastoma. Orthologous to human APC (APC regulator of WNT signaling pathway).

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.9 kDa Accurate Molecular Mass: 58 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.
GENE INFORMATION	
Gene Name	Apc adenomatosis polyposis coli [Mus musculus (house mouse)]
Official Symbol	Apc
Synonyms	APC; adenomatosis polyposis coli; adenomatous polyposis coli protein; multiple intestinal neoplasia; CC1; Min; mAPC; AI047805; AU020952; AW124434

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Gene ID	11789
mRNA Refseq	NM_007462
Protein Refseq	NP_031488
UniProt ID	B2RUG9

