# Activated Protein C (APC) ELISA Kit for Cavy

## PRODUCT OVERVIEW

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| **Product Name** | Activated Protein C (APC), ELISA Kit |
| **Full Product Name** | Cavy Activated Protein C ELISA Kit |
| **Product Gene Name** | APC elisa kit |
| **Species Reactivity** | Cavy |
| **Assay Type** | Sandwich |
| **Preparation and Storage** | Store all reagents at 2-8 degree C |
| **Molecular Weight** | 311,646 Da |
| **OMIM** | 114550 |
| **3D Structure** | ModBase 3D Structure for P25054 |
| **Related Product Information for APC elisa kit** | MBS008853 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Activated Protein C (APC) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing APC. The ELISA analytical biochemical technique of the MBS008853 kit is based on APC antibody-APC antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect APC antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, APC. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of APC elisa kit 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. |

## ADDITIONAL DETAILS

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

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| **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 |

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| **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.<br><br>Protein type: Tumor suppressor; Motility/polarity/chemotaxis<br><br>Chromosomal Location of Human Ortholog: 5q21-q22<br><br>Cellular Component: nucleoplasm; kinetochore; centrosome; cell-cell adherens junction; tight junction; cytoplasmic microtubule; lamellipodium; cytoplasm; plasma membrane; beta-catenin destruction complex; cytosol; nucleus; lateral plasma membrane<br><br>Molecular Function: microtubule plus-end binding; protein binding; cadherin binding; microtubule binding; gamma-catenin binding; beta-catenin binding; protein kinase regulator activity; protein kinase binding<br><br>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; anterior/posterior pattern formation; muscle maintenance; 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 cycle arrest; cell adhesion; kidney development; proximal/distal pattern formation; cell structure disassembly during apoptosis; regulation of microtubule-based process; negative regulation of odontogenesis; regulation of attachment of spindle microtubules to kinetochore; 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<br><br>Disease: Familial Adenomatous Polyposis 1; Gastric Cancer; Desmoid Disease, Hereditary; Colorectal Cancer; Hepatocellular Carcinoma |
| **Research Articles on APC** | **1.** this study reports a de novo germline mutation of APC as the causal variant in a Chinese family with inheritable colon cancer by the next generation sequencing. |
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