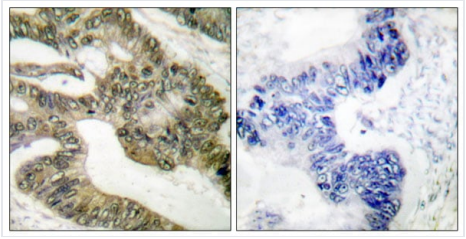
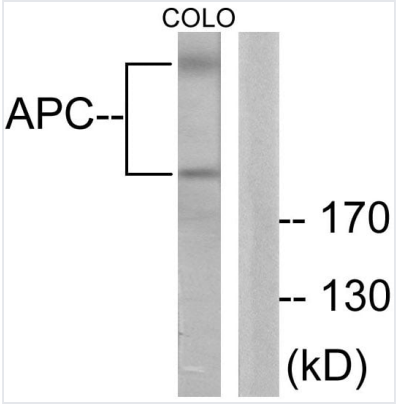
# APC Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | APC, Polyclonal Antibody |
| **Full Product Name** | APC Antibody |
| **Product Gene Name** | anti-APC antibody |
| **Product Synonym Names** | Adenomatous polyposis coli protein; adenomatous polyposis of the colon gene; APC; APC protein; DP2.5; mAPC |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Purified from rabbit antiserum by affinity-chromatography using immunogen. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Specificity** | APC Antibody detects endogenous levels of total APC protein. |
| **Preparation and Storage** | Stable at -20 degree C for at least 1 year. |
| **Molecular Weight** | 311 kDa |
| **OMIM** | M73548 mRNA |
| **3D Structure** | ModBase 3D Structure for P25054 |
| **Target Modification** | Unmodified/Total |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human APC. |
| **Immunogen Range** | 2794-2843 |
| **Applications Tested/Suitable for anti-APC antibody** | Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA) |
| **Application Notes for anti-APC antibody** | WB: 1:500~1:1000<br>IHC: 1:50~1:100<br>ELISA: 1:40000 |
| **Related Product Information for anti-APC antibody** | MBS9504535 is an antibody targeting APC. Also known as APC Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **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. |



**Immunohistochemistry (IHC) of anti-APC antibody**
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using APC Antibody. The picture on the right is blocked with the synthesized peptide.




**Western Blot (WB) of anti-APC antibody**
Western blot analysis of lysates from COLO205 cells, using APC Antibody. The lane on the right is blocked with the synthesized peptide.

## 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; B7Z2B6; 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** | APC, WNT signaling pathway regulator |
| **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** | Protein APC |
| **NCBI Protein Information** | adenomatous polyposis coli protein |
| **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** | 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. It is required for the localization of MACF1 to the cell membrane and this localization of MACF1 is critical for its function in microtubule stabilization. |

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| **Research Articles on APC** | **1.** Study is the first to demonstrate that EphB6 overexpression together with Apc gene mutations may enhance proliferation, invasion and metastasis by colorectal epithelial cells. |
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