

APC Antibody (aa2794-2843) Rabbit Polyclonal Antibody Catalog # ALS15035

Specification

APC Antibody (aa2794-2843) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, IHC <u>P25054</u> Human, Mouse, Rat Rabbit Polyclonal 312kDa KDa

APC Antibody (aa2794-2843) - Additional Information

Gene ID 324

Other Names Adenomatous polyposis coli protein, Protein APC, Deleted in polyposis 2.5, APC, DP2.5

Target/Specificity APC Antibody detects endogenous levels of total APC protein.

Reconstitution & Storage Store at -20°C for up to one year.

Precautions APC Antibody (aa2794-2843) is for research use only and not for use in diagnostic or therapeutic procedures.

APC Antibody (aa2794-2843) - Protein Information

Name APC (<u>HGNC:583</u>)

Synonyms DP2.5

Function

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. Associates with both microtubules and actin filaments, components of the cytoskeleton (PubMed:17293347). Plays a role in mediating the organization of F- actin into ordered bundles (PubMed:17293347). Functions downstream of Rho GTPases and DIAPH1 to selectively stabilize microtubules (By similarity). 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.

Cellular Location

Cell junction, adherens junction. Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Cell projection, ruffle membrane. Cytoplasm. Cell membrane. Note=Associated with the microtubule network at the growing distal tip of microtubules (PubMed:19632184) MAPRE1 may be required for targeting to the growing microtubule plus ends (PubMed:19632184). Accumulates in the lamellipodium and ruffle membrane in response to hepatocyte growth factor (HGF) treatment (PubMed:19151759). The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosphorylated form to the cell membrane (PubMed:20937854).

Tissue Location

Expressed in a variety of tissues: brain, small intestine, colon, thymus, skeletal muscle, heart, prostate, lung, spleen, ovary, testis kidney, placenta, blood and liver (PubMed:21643010, PubMed:27217144). Isoform 1A: Very strongly expressed in brain but has relatively low expression levels in other tissues (PubMed:19527921, PubMed:21643010, PubMed:27217144). Isoform 1B: Predominant form in all tissues except for brain, including gastric mucosa and blood (PubMed:19527921, PubMed:27217144)

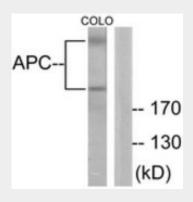
Volume 50 μl

APC Antibody (aa2794-2843) - Protocols

Provided below are standard protocols that you may find useful for product applications.

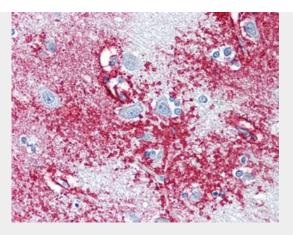
- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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APC Antibody (aa2794-2843) - Images
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Western blot of extracts from COLO205 cells, using APC Antibody.





Anti-APC antibody IHC of human brain, cortex.

APC Antibody (aa2794-2843) - Background

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APC Antibody (aa2794-2843) - References

Joslyn G.,et al.Cell 66:601-613(1991). Kinzler K.W.,et al.Science 253:661-665(1991). Kawasaki Y.,et al.Science 289:1194-1197(2000). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Miki Y.,et al.Cancer Res. 52:643-645(1992).