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MCC Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17244c

Specification

MCC Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P23508
Other Accession	NP_002378.1, NP_001078846.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**93027**
Antigen Region	**473-501**

MCC Antibody (Center) - Additional Information

Gene ID 4163

Other Names
Colorectal mutant cancer protein, Protein MCC, MCC

Target/Specificity
This MCC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 473-501 amino acids from the Central region of human MCC.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MCC Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MCC Antibody (Center) - Protein Information

Name MCC

Function Candidate for the putative colorectal tumor suppressor gene located at 5q21.

Suppresses cell proliferation and the Wnt/b-catenin pathway in colorectal cancer cells. Inhibits DNA binding of b- catenin/TCF/LEF transcription factors. Involved in cell migration independently of RAC1, CDC42 and p21-activated kinase (PAK) activation (PubMed:18591935, PubMed:19555689, PubMed:22480440). Represses the beta-catenin pathway (canonical Wnt signaling pathway) in a CCAR2- dependent manner by sequestering CCAR2 to the cytoplasm, thereby impairing its ability to inhibit SIRT1 which is involved in the deacetylation and negative regulation of beta-catenin (CTNB1) transcriptional activity (PubMed:24824780).

Cellular Location
Cell membrane. Cell projection, lamellipodium. Nucleus. Cytoplasm. Note=Colocalizes with actin at the leading edge of polarized cells

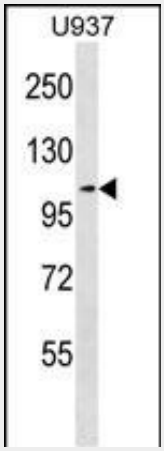
Tissue Location
Expressed in a variety of tissues.

MCC Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MCC Antibody (Center) - Images



MCC Antibody (Center) (Cat. #AP17244c) western blot analysis in U937 cell line lysates (35ug/lane).This demonstrates the MCC antibody detected the MCC protein (arrow).

MCC Antibody (Center) - Background

This gene is a candidate colorectal tumor suppressor gene that is thought to negatively regulate cell cycle progression. The orthologous gene in the mouse expresses a phosphoprotein associated with the plasma membrane and membrane organelles, and overexpression of the mouse protein inhibits entry into S phase.

Multiple transcript variants encoding different isoforms have been found for this gene.

MCC Antibody (Center) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010)
Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010)
Arnaud, C., et al. FEBS Lett. 583(14):2326-2332(2009)
Fukuyama, R., et al. Oncogene 27(46):6044-6055(2008)