

PIK3CA(D549N)

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Cat. #: 26215

Size: 100 μ L

Gene Symbol: PIK3CA, CLOVE, CWS5, MCAP, MCM, MCMTTC, PI3K, p110-alpha

Description: Anti-PIK3CA(D549N) Mouse Monoclonal Antibody

Background: Phosphatidyl 3-kinases (PI3K) are a family of lipid kinases involved in many cellular processes, including cell growth, proliferation, differentiation, motility, and survival. It is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. Mutants of PIK3CA has been found in the pathogenesis of several cancers, including colon cancer, gliomas, gastric cancer, breast cancer, endometrial cancer, and lung cancer.

Immunogen: A synthetic peptide from the internal region of PIK3CA which includes the mutation of D549N, human origin.

Applications: ELISA, WB, IHC

Recommended Dilutions:

ELISA: 1:1000-1:5000

WB: 1:500-1:1000

IHC: 1:50-1:100

Concentration: 0.5 mg/ml

Host Species: Mouse

Format: Liquid

Clonality: Monoclonal

Isotype: IgG

Purity: Purified from ascites

Preservative: No

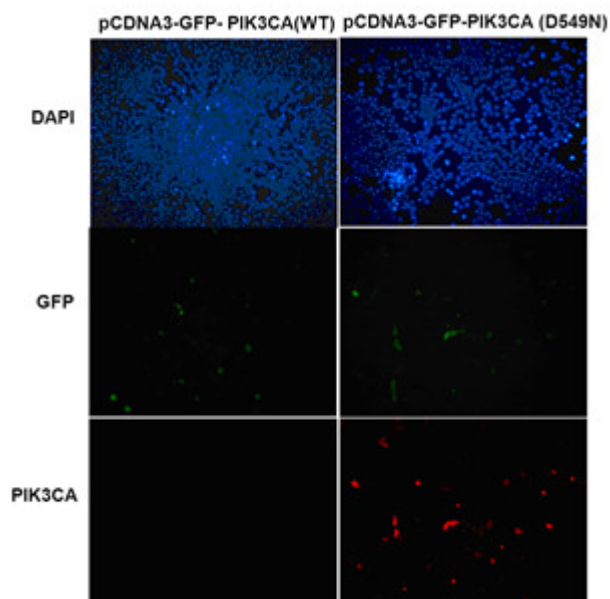
Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes D549N mutant, but not wild type PIK3CA of vertebrates.

Storage Conditions: Store at $-20^{\circ}C$. Avoid repeated freezing and thawing

Western blot:

Western blot analysis of recombinant PIK3CA(D549N) and wild type proteins. Purified His-tagged PIK3CA(D549N) protein (lane 2) and corresponding wild type protein (lane 1) were blotted with Anti-PIK3CA(D549N) monoclonal antibody (Cat. #26215).



Immunofluorescence:

Immunofluorescence of cells expressing PIK3CA proteins with Anti-PIK3CA(D549N) antibody. HEK293T cells were transfected with pCDNA3-GFP-PIK3CA (WT) plasmid (left column) or pCDNA3-GFP-PIK3CA(D549N) plasmid (right column), then fixed and stained with Anti-PIK3CA(D549N) monoclonal antibody (Cat. #26215).