

## PIK3CA(D549N)

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**Cat. #:** 26215

**Size:** 100 µL

**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

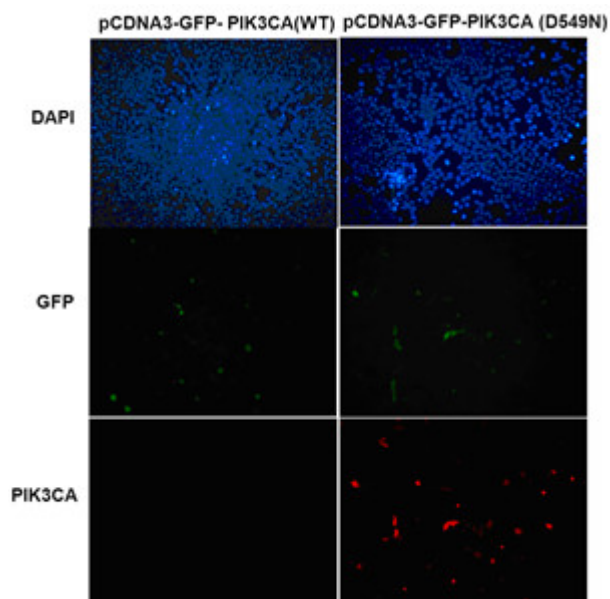
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

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

**Storage Conditions:** Store at -20°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).