

## PIK3CA (D549N)

**Catalog Number:** 26215

**Gene Symbol:** PIK3CA, CLOVE, CWS5, MCAP, MCM, MCMTC, 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.

**Tested 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:** Mouse

**Clonality:** Monoclonal

**Purity:** Purified from ascites

**Format:** Liquid

**Storage buffer:**

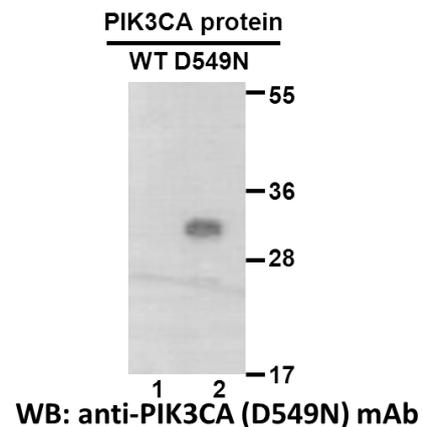
Preservative: no

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.

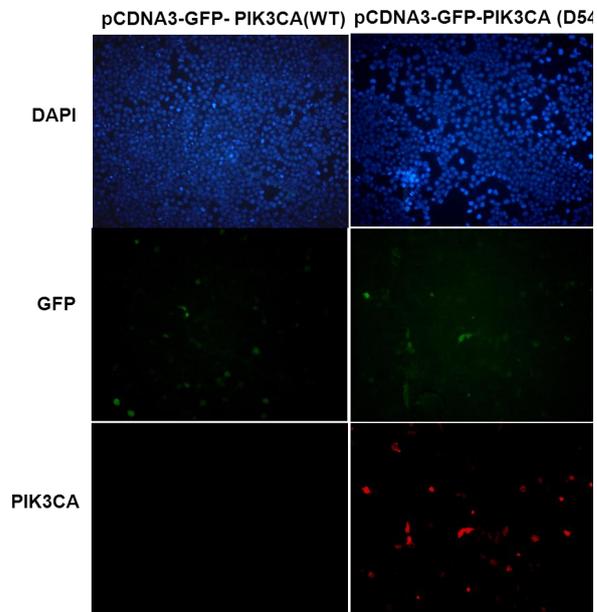
**Storage Conditions:** Store at  $-20^{\circ}C$ . Avoid freeze / thaw cycles.

### Western blot:



**Western blot analysis of recombinant PIK3CA (D549N) and wildtype proteins.** Purified His-tagged PIK3CA (D549N) protein (lane 2) and corresponding wildtype 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).