

**PIK3CA(D549N)****PIK3CA(D549N)****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

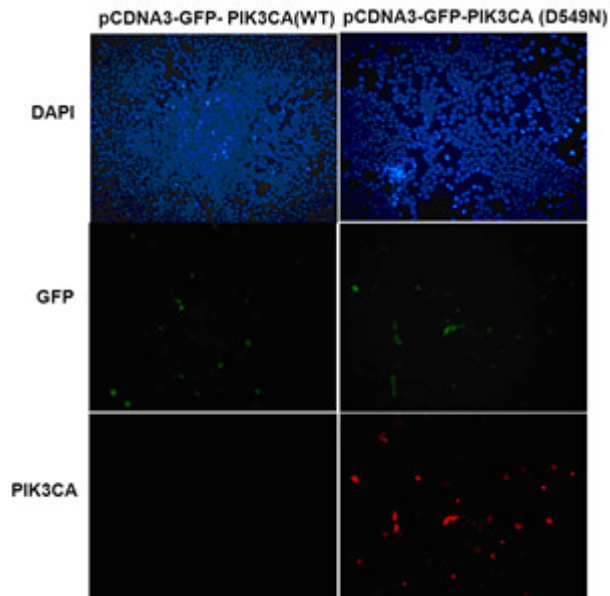
WB: 1:500–1:1000

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  $Mg^{2+}$  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).

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### 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).