

PIK3CA(E542K)

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Cat. #: 26234

Size: 100 µL

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

Description: Anti-PIK3CA(E542K) 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 E542K, human origin.

Applications: ELISA, WB

Recommended Dilutions:

ELISA: 1:1000-1:5000

WB: 1:500-1:2000

Concentration: 1 mg/ml

Host Species: Mouse

Format: Liquid

Clonality: Monoclonal

Isotype: IgG

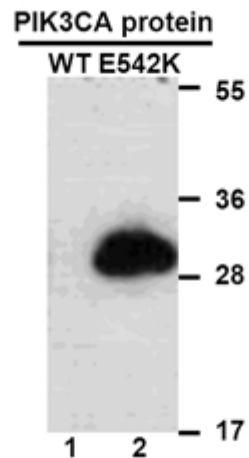
Purity: Purified from ascites

Preservative: No

Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes E542K mutant, but not wild type PIK3CA of vertebrates.

Storage Conditions: Store at -20°C. Avoid repeated freezing and thawing



Western blot: WB: anti-PIK3CA (E542K) mAb

Western blot analysis of recombinant PIK3CA(E542K) and wild type proteins. Purified His-tagged PIK3CA(E542K) protein (lane 2) and corresponding wild type protein (lane 1) were blotted with Anti-PIK3CA(E542K) monoclonal antibody (Cat. #26234).