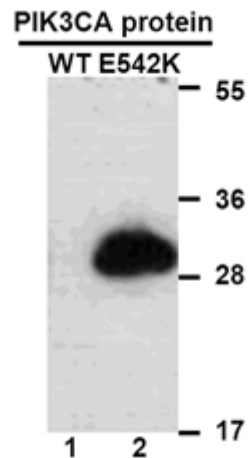


**PIK3CA(E542K)****PIK3CA(E542K)****Cat. #:** 26234**Size:** 100 µL**Gene Symbol:** PIK3CA, CLOVE, CWS5, MCAP, MCM, MCMTTC, PI3K, p110- $\alpha$ **Description:** Anti-PIK3CA(E542K) Mouse Monoclonal Antibody**Background:** Phosphatidyl 3-kinases (PI3K) are a family of lipid kinases involved in many cellular 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 Mg<sup>2+</sup> and Ca<sup>2+</sup>), 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).