

PIK3CA(E542Q)

Catalog Number: 26210

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

Description: Anti-PIK3CA(E542Q) 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 E542Q, 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: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Isotype: IgG

Purity: Purified from ascites

Format: Liquid

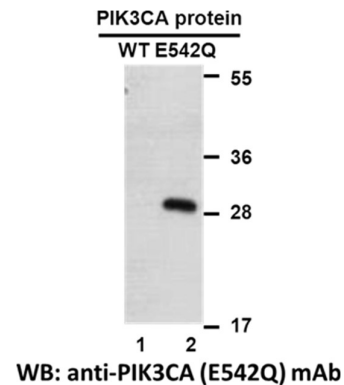
Preservative: No

Constituents: PBS (without Mg²⁺ and Ca²⁺), pH7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes E542Q mutant, but not wild-type PIK3CA of vertebrates

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

Western blot:

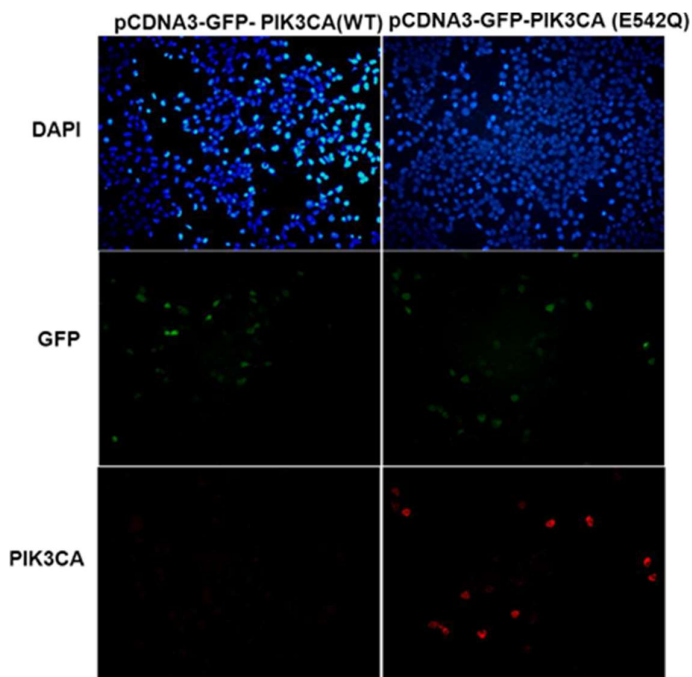


Western blot analysis of recombinant PIK3CA (E542Q) and wildtype proteins.

Purified His-tagged PIK3CA (E542Q) protein (lane 2) and corresponding wildtype protein (lane 1) were blotted with anti-PIK3CA (E542Q) monoclonal antibody (Cat. # 26210).

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Immunofluorescence:



Immunofluorescence of cells expressing PIK3CA proteins with anti-PIK3CA (E542Q) antibody.

HEK293T cells were transfected with pCDNA3-GFP-PIK3CA (WT) plasmid (left column) or pCDNA3-GFP-PIK3CA (E542Q) plasmid (right column), then fixed and stained with anti-PIK3CA (E542Q) monoclonal antibody (Cat. #26210).

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