

PIK3CA (E545G)

Catalog Number: 26208

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

Description: Anti-PIK3CA (E545G) 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 E545G, 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

Purity: Purified from ascites

Format: Liquid

Storage buffer:

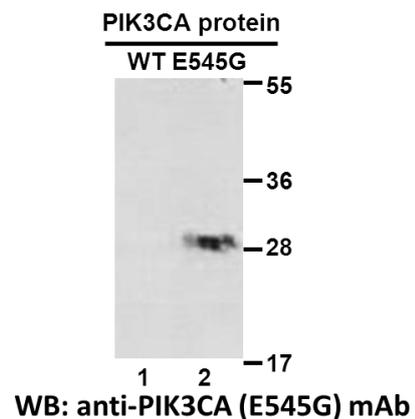
Preservative: no

Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes E545G mutant, but not wild-type PIK3CA of vertebrates.

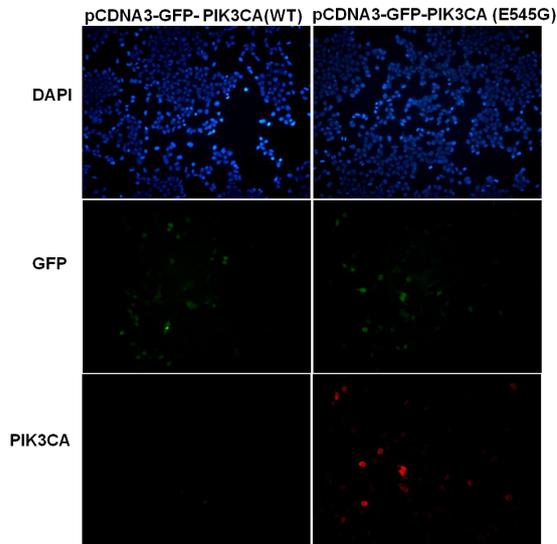
Storage Conditions: Store at $-20^{\circ}C$. Avoid freeze / thaw cycles.

Western blot:



Western blot analysis of recombinant PIK3CA (E545G) and wildtype proteins. Purified His-tagged PIK3CA (E545G) protein (lane 2) and corresponding wildtype protein (lane 1) were blotted with anti-PIK3CA (E545G) monoclonal antibody (Cat. #26208).

Immunofluorescence:



Immunofluorescence of cells expressing PIK3CA proteins with anti-PIK3CA (E545G) antibody. HEK293T cells were transfected with pCDNA3-GFP-PIK3CA (WT) plasmid (left column) or pCDNA3-GFP-PIK3CA (E545G) plasmid (right column), then fixed and stained with anti-PIK3CA (E545G) monoclonal antibody (Cat. #26208).