Product Description

Pioneering GTPase and Oncogene Product Development since 2010

PIK3CA(H1047Y)

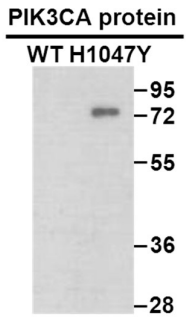
Catalog Number: 26216
Gene Symbol: PIK3CA, CLOVE, CWS5, MCAP, MCM, MCMTC, PI3K, p110-alpha
Description: Anti-PIK3CA(H1047Y) Mouse Monoclonal Antibody

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 hasbeen 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 themutation of H1047Y, 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: 0.5 mg/ml
Host: Mouse
Clonality: Monoclonal
Purity: Purified from ascites
Format: Liquid
Preservative: No
Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol
Species Reactivity: Recognizes H1047Y mutant,but not wild-type PIK3CA of vertebrates.
Storage Conditions: Store at -20°C. Avoid repeated freezing and thawing.

Western blot:



WB: Anti- PIK3CA(H1047Y) mAb

Western blot analysis of recombinant PIK3CA (H1047Y) and wildtype proteins.

Purified His-tagged PIK3CA (H1047Y) protein (lane 2) and corresponding wildtype protein (lane 1) were blotted with anti-PIK3CA (H1047Y) monoclonal antibody (Cat. # 26216).

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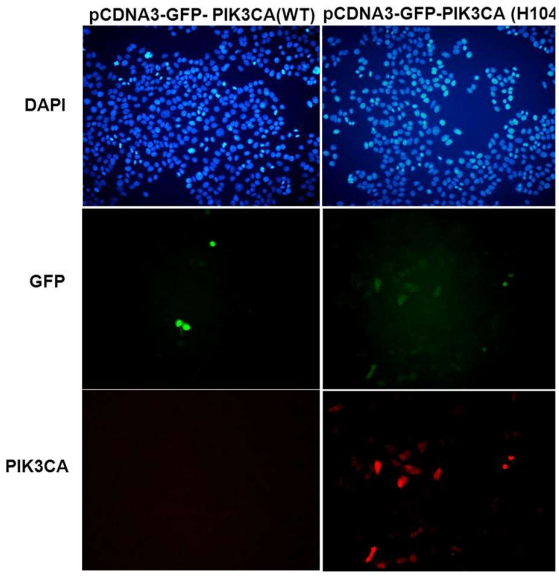
Immunofluorescence:



Immunofluorescence of cells expressing PIK3CA proteins with anti-PIK3CA (H1047Y)antibody.

HEK293T cells were transfected with pCDNA3-GFP-PIK3CA (WT) plasmid (left column) or pCDNA3-GFP-PIK3CA (H1047Y) plasmid (right column), then fixed and stainedwith anti-PIK3CA(H1047Y) monoclonal antibody (Cat. # 26216).

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