

# **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

### PIK3CA(E545G)

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Cat. #: 26208 Size: 100 µL

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.

**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 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 E545G mutant, but not wild type PIK3CA of

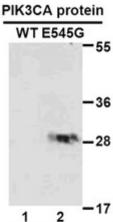
vertebrates.

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



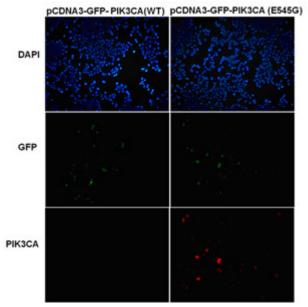
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Western blot: WB: anti-PIK3CA (E545G) mAb

Western blot analysis of recombinant PIK3CA(E545G) and wild type proteins. Purified His-tagged PIK3CA(E545G) protein (lane 2) and corresponding wild type 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).