

## PIK3CA (G1049S)

**Catalog Number:** 26219

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

**Description:** Anti-PIK3CA (G1049S) 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 G1049S, human origin.

**Tested applications:** ELISA, WB

**Recommended dilutions:**

ELISA: 1:1000-1:5000

WB: 1:500-1:2000

**Concentration:** 1 mg/ml

**Host:** Mouse

**Clonality:** Monoclonal

**Purity:** Purified from ascites

**Format:** Liquid

**Storage buffer:**

Preservative: no

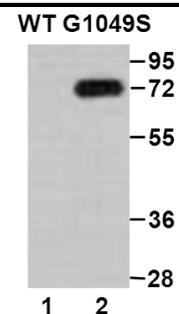
Constituents: PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

**Species Reactivity:** Recognizes G1049S mutant, but not wild-type PIK3CA of vertebrates.

**Storage Conditions:** Store at -20°C. Avoid freeze / thaw cycles.

### Western blot:

#### PIK3CA protein



WB: Anti- PIK3CA(G1049S) mAb

**Western blot analysis of recombinant PIK3CA (G1049S) and wildtype proteins.** Purified His-tagged PIK3CA (G1049S) protein (lane 2) and corresponding wildtype protein (lane 1) were blotted with anti-PIK3CA (G1049S) monoclonal antibody (Cat. #26219).