

PIK3CA Ab

Cat.#: BF0462
 Size: 50ul,100ul,200ul

Concn.: 1mg/ml
 Source: Mouse

Mol.Wt.: 124kDa
 Clonality: Monoclonal

Application: ELISA 1/10000, WB 1/500 - 1/2000, ICC 1/200 - 1/1000, FCM 1/200 - 1/400

Reactivity: Human

Purification: Affinity-chromatography.

Specificity: PIK3CA Ab detects endogenous levels of total PIK3CA.

Immunogen: Purified recombinant fragment of human PIK3CA expressed in E. Coli.

Uniprot: P42336

Description: Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers.

Similarity: The PI3K-ABD domain and the PI3K-RBD domain interact with the PI3K/PI4K kinase domain. The C2 PI3K-type domain may facilitate the recruitment to the plasma membrane. The inhibitory interactions with PIK3R1 are mediated by the PI3K-ABD domain and the C2 PI3K-type domain with the iSH2 (inter-SH2) region of PIK3R1, and the C2 PI3K-type domain, the PI3K helical domain, and the PI3K/PI4K kinase domain with the nSH2 (N-terminal SH2) region of PIK3R1. Belongs to the PI3/PI4-kinase family.

Storage Condition and Buffer: Mouse IgG1 in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

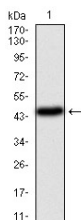


Figure 1: Western blot analysis using PIK3CA mAb against human PIK3CA (AA: 881-1068) recombinant protein. (Expected MW is 47.4 kDa)

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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