

PIK3CA monoclonal antibody

Catalog: MB23479

Host: Mouse

Reactivity: Human, Mouse, Rat, Rabbit

BackGround:

PIK3CA is the most mutated gene in breast cancer and is important in other cancers. An integral part of the PI3K pathway, PIK3CA is an oncogene with two hotspots for activating mutations: the 542/545 region of the helical domain and the 1047 region of the kinase domain. The interaction of PIK3CA with the AKT and mTOR pathways is the subject of an immense amount of research and development, and PI3K inhibitors have exhibited some success in recent clinical trials. While PI3K monotherapies are likely insufficient, there is interest in pursuing PI3K inhibition in combination with other therapies including TKI's, MEK inhibitors, PARP inhibitors, and - in breast cancer - aromatase inhibitors.

Product:

Purified antibody in PBS with 0.05% sodium azide.

Molecular Weight:

124kDa

Swiss-Prot:

P42336

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

IHC:1/200 - 1/1000 IF:1/200 - 1/1000 FC:1/200 - 1/400

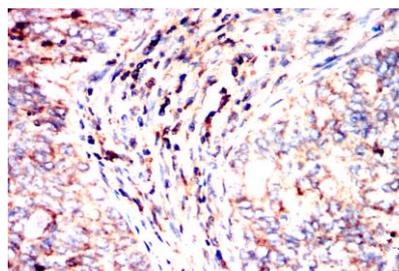
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

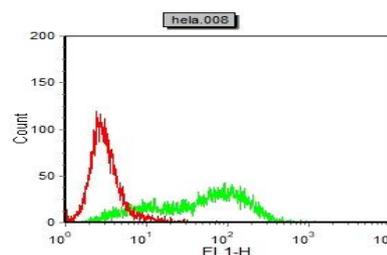
Isotype:

Mouse IgG2a

DATA:



Immunohistochemical analysis of paraffin-embedded human cervical cancer showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



Flow cytometric analysis of HELA cells using PIK3CA mouse mAb (green) and negative control (red).

Note:

For research use only, not for use in diagnostic procedure.

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