

PIK3CA Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4236
Host	Mouse
Isotype	Mouse IgG2a
Size	100µL, 50µL
Immunogen	N/A
Mol wt	124kDa
Species reactivity	Human,Mouse,Rat,Rabbit
Clonality	Monoclonal
Recommended application	IHC,ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	PI3K;p110-alpha

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

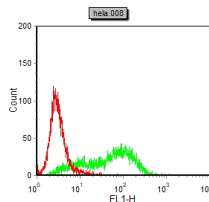
Background

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.

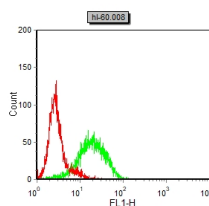
Recommended Dilution

Not yet tested in other applications.

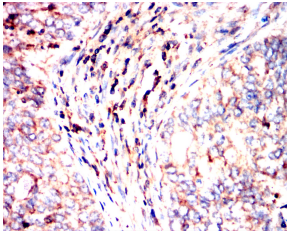
Images



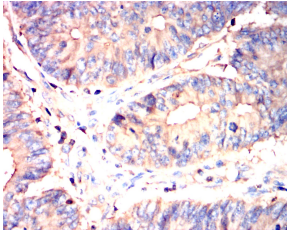
Flow cytometric analysis of HELA cells using PIK3CA mouse mAb (green) and negative control (red).



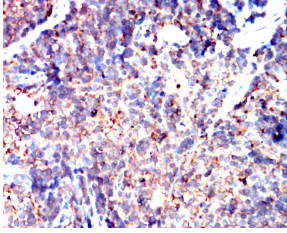
Flow cytometric analysis of HL-60 cells using PIK3CA mouse mAb (green) and negative control (red).



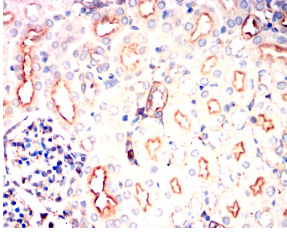
Immunohistochemical analysis of paraffin-embedded human cervical cancer showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



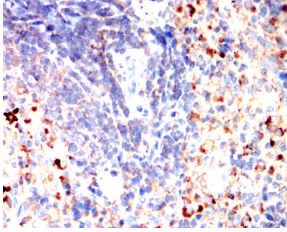
Immunohistochemical analysis of paraffin-embedded human colon cancer showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



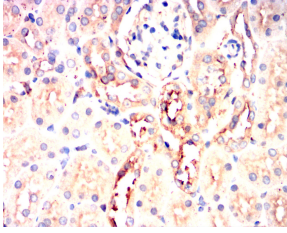
Immunohistochemical analysis of paraffin-embedded mouse spleen showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



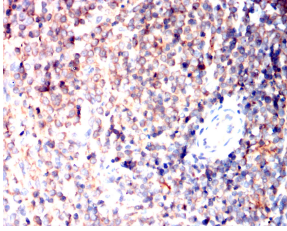
Immunohistochemical analysis of paraffin-embedded mouse kidney showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



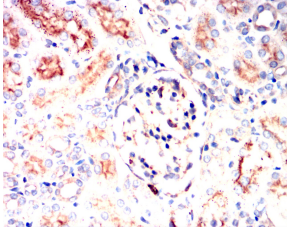
Immunohistochemical analysis of paraffin-embedded rat spleen showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rat kidney showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rabbit spleen showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rabbit kidney showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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