Product Name: PIK3CA Mouse Monoclonal Antibody
Catalog #: AMM83003

Summary

Production Name	PIK3CA Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IHC,ICC,FC,ELISA
Reactivity	Human,Mouse,Rat,Rabbit

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	PIK3CA
Alternative Names	PI3K; p110-alpha
Gene ID	5290.0
SwissProt ID	P42336.

Application

Dilution Ratio	IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	124kDa

Background

PIK3CA is the most mutated gene in breast cancer and is important in other cancers. An integral part of the PI3K pathway,

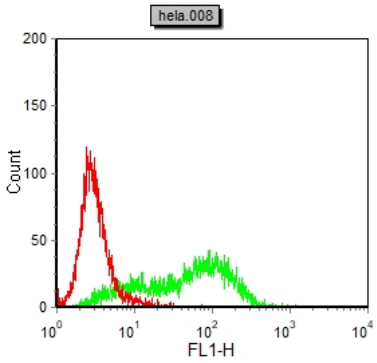
Product Name: PIK3CA Mouse Monoclonal Antibody
Catalog #: AMM83003

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.

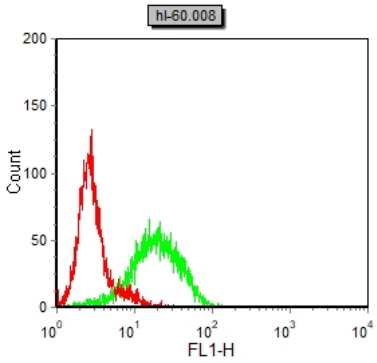
Research Area

PI3K-Akt signaling pathway

Image Data

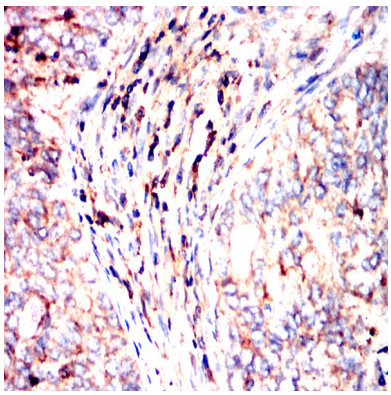


Flow cytometric analysis of HELA cells using PIK3CA mouse mAb (green) and negative control (red).

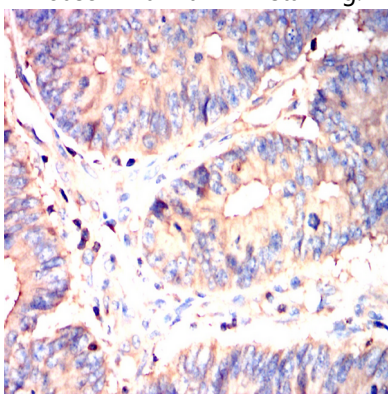


Flow cytometric analysis of HL-60 cells using PIK3CA mouse mAb (green) and negative control (red).

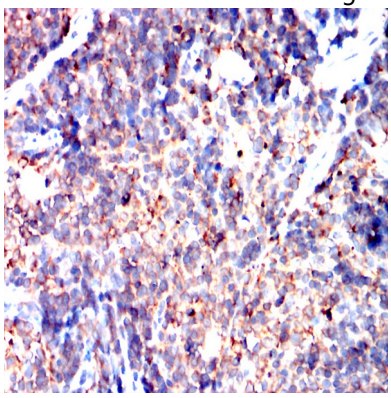
Product Name: PIK3CA Mouse Monoclonal Antibody
Catalog #: AMM83003



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

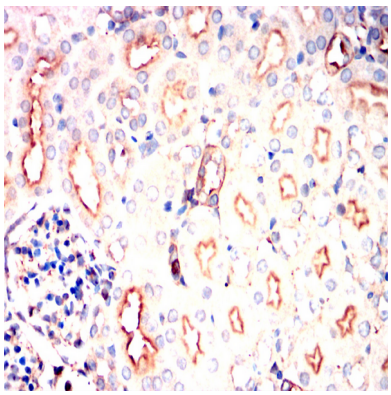


Immunohistochemical analysis of paraffin-embedded human colon cancer showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.

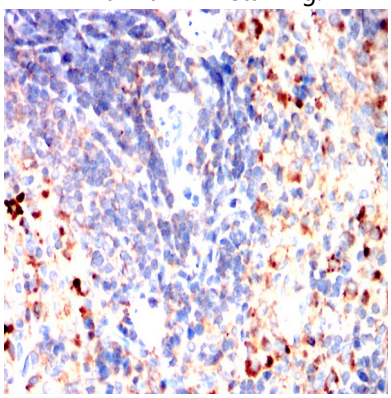


Immunohistochemical analysis of paraffin-embedded mouse spleen showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.

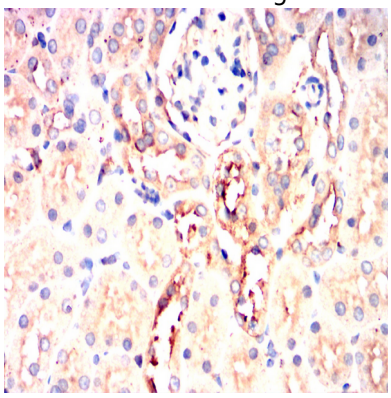
Product Name: PIK3CA Mouse Monoclonal Antibody
Catalog #: AMM83003



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

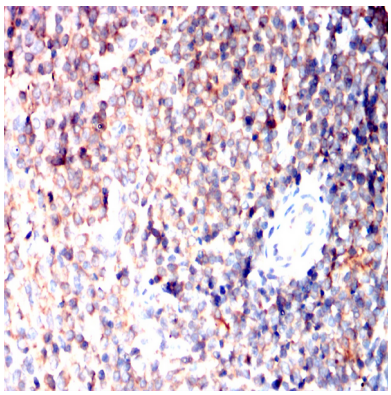


Immunohistochemical analysis of paraffin-embedded rat spleen showing cytoplasmic localization using PIK3CA mouse mAb with DAB staining.



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

Product Name: PIK3CA Mouse Monoclonal Antibody
Catalog #: AMM83003



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

Note

For research use only.