

Anti-PIK3CA Antibody (8055)

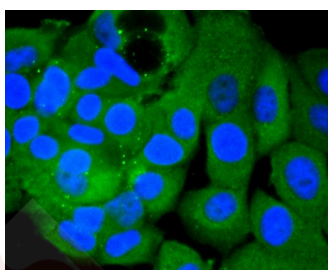
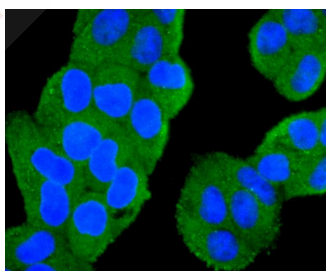
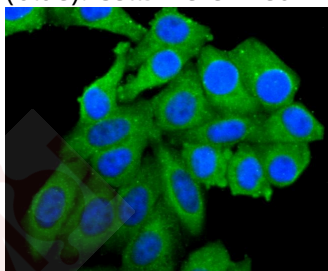
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 124 kDa.
Clone:	8055
Purification:	ProA affinity purified

Applications

Verified Activity:

1. ICC staining PI 3 kinase p110 alpha in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
2. ICC staining PI 3 kinase p110 alpha in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining PI 3 kinase p110 alpha in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Application:	ICC/IF,IP,WB
Recommended	WB: 1:500-1000; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P42336

Synonyms: p110 α); Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha (PtdIns-3-kinase subunit p110-alpha; Phosphoinositide-3-kinase catalytic a polypeptide

Research Background

Phosphatidylinositol 3-kinase (PI 3-kinase) is composed of p85 and p110 subunits. p85 lacks PI 3-kinase activity and acts as an adapter, coupling p110 to activated protein tyrosine kinase. Two forms of p85 have been described (p85 α ; and p85 β);, each possessing one SH3 and two SH2 domains. Various p110 isoforms have been identified. p110 α ; and p110 β ; interact with p85 α ;, and p110 α ; has also been shown to interact with p85 β ; in vitro. p110 δ ; expression is restricted to white blood cells. It has been shown to bind p85 α ; and β ;, but it apparently does not phosphorylate these subunits. p110 δ ; seems to have the capacity to autophosphorylate. p110 γ ; does not interact with the p85 subunits. It has been shown to be activated by α ; and β ; γ ; heterotrimeric G proteins.

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