Product Datasheet

PI 3 Kinase catalytic subunit alpha Rabbit mAb

Catalog No: #48751

Package Size: #48751-1 50ul #48751-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

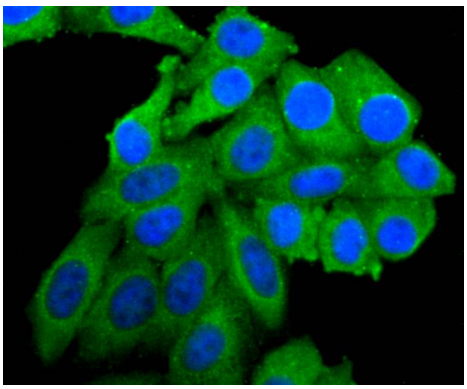
Product Name	PI 3 Kinase catalytic subunit alpha Rabbit mAb
Clone No.	SJ0186
Purification	ProA affinity purified
Applications	WB, ICC/IF, IP
Species Reactivity	Human Rat Mouse
Immunogen Description	recombinant protein
Other Names	5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha antibody 5-bisphosphate 3-kinase catalytic subunit alpha isoform antibody caPI3K antibody CLOVE antibody CWS5 antibody MCAP antibody MCM antibody MCMTC antibody MGC142161 antibody MGC142163 antibody p110 alpha antibody p110alpha antibody Phosphatidylinositol 3 kinase catalytic alpha polypeptide antibody Phosphatidylinositol 3 kinase catalytic 110 KD alpha antibody Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit alpha antibody Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit alpha isoform antibody Phosphatidylinositol 4,5 bisphosphate 3 kinase 110 kDa catalytic subunit alpha antibody Phosphatidylinositol-4 antibody Phosphoinositide 3 kinase catalytic alpha polypeptide antibody PI3 kinase p110 subunit alpha antibody PI3-kinase subunit alpha antibody PI3K antibody PI3K-alpha antibody PI3KC A antibody PIK3C A antibody Pik3ca antibody PK3CA antibody PK3CA_HUMAN antibody PtdIns 3 kinase p110 antibody PtdIns-3-kinase subunit alpha antibody PtdIns-3-kinase subunit p110-alpha antibody Serine/threonine protein kinase PIK3CA antibody
Accession No.	Swiss-Prot#:P42336
Calculated MW	124 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

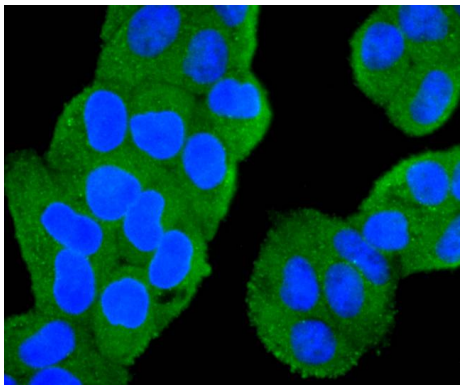
WB: 1:500-1:1000

ICC: 1:50-1:200

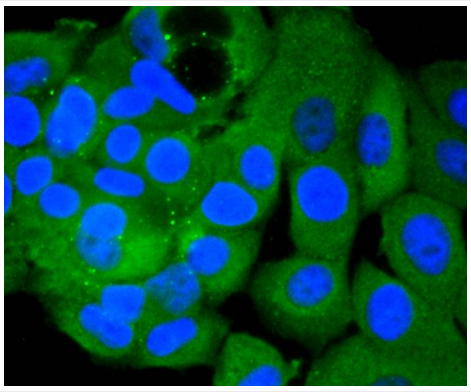
Images



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.



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.



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.

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 (p85α and p85β), each possessing one SH3 and two SH2 domains. Various p110 isoforms have been identified. p110α and p110β interact with p85α, and p110α has also been shown to interact with p85β in vitro. p110δ expression is restricted to white blood cells. It has been shown to bind p85α and β, but it apparently does not phosphorylate these subunits. p110δ seems to have the capacity to autophosphorylate. p110γ does not interact with the p85 subunits. It has been shown to be activated by α and βγ heterotrimeric G proteins.

References

1. Salm, F. et al. 2015. The Phosphoinositide 3-Kinase p110α Isoform Regulates Leukemia Inhibitory Factor Receptor Expression via c-Myc and miR-125b to Promote Cell Proliferation in Medulloblastoma. PloS one. 10: e0123958.
2. Akula, M.K. et al. 2016. Control of the innate immune response by the mevalonate pathway. Nature immunology. 17: 922-9.