



Rabbit Anti-PIK3CA monoclonal antibody, clone TK1297 (DCABH-3236)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	PI 3 Kinase catalytic subunit alpha
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	TK1297
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IP
Molecular Weight	124 kDa
Cellular Localization	Cytosol.
Positive Control	MCF-7, Hela, HepG2.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

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 $\beta\gamma$ heterotrimeric G proteins.

Keywords

5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha;5-bisphosphate 3-kinase catalytic subunit alpha
isoform;caPI3K;CLOVE;CWS5;MCAP;MCM;MCMTTC;MGC142161;MGC142163;p110
alpha;p110alpha;Phosphatidylinositol 3 kinase catalytic alpha
polypeptide;Phosphatidylinositol 3 kinase catalytic 110 KD alpha;Phosphatidylinositol
4 5 bisphosphate 3 kinase catalytic subunit alpha;Phosphatidylinositol 4 5
bisphosphate 3 kinase catalytic subunit alpha isoform;Phosphatidylinositol 4,5
bisphosphate 3 kinase 110 kDa catalytic subunit alpha;Phosphatidylinositol-
4;Phosphoinositide 3 kinase catalytic alpha polypeptide;PI3 kinase p110 subunit
alpha;PI3-kinase subunit alpha;PI3K;PI3K-alpha;PI3KC A;PIK3C
A;Pik3ca;PK3CA;PK3CA_HUMAN;PtdIns 3 kinase p110;PtdIns-3-kinase subunit
alpha;PtdIns-3-kinase subunit p110-alpha;Serine/threonine protein kinase PIK3CA
antibody
