

Human PIK3CB / PIK3R1 Heterodimer (active kinase) - Purified

Catalog No.: AR10194PU-L

Quantity: 5 µg

Concentration: 0.5 mg/ml

Background: The PI3Kb isoform can be activated by insulin via the insulin receptor to initiate a cascade of events that control cell growth and metabolism. The activation of PI3Kb is mediated by the p85 regulatory subunit binding to tyrosine phosphorylated insulin receptor substrate (IRS) proteins (e.g. IRS-1 and IRS-2). It was also shown that PI3Kb is involved in apoptosis in human colon carcinoma cells. Injection of neutralizing antibodies specific to p110b in WiDr, HCT116 and CO 115 adenocarcinoma cells inhibited de novo DNA synthesis. PI3Kb is the major PI3K isoform required for apoptotic cell and Fc-g receptor mediated phagocytosis shown for primary mouse macrophages and the Jurkat human leukemia T cell line. It was shown by several research groups that the catalytic subunit of PI3Kb can be activated by Gbg subunits of G-protein coupled receptors.

Species: Human

Source: Insect cells

Format: **State:** Liquid sterile filtered protein
Purity: > 90.0% as determined by SDS-PAGE
Buffer System: 10mM Hepes, pH 7.5, 100mM NaCl, 2.5mM MgCl₂, and 50% Glycerol

Description: Recombinant Human Phosphoinositide 3-kinase beta is a glycosylated protein having a Molecular Weight as follows: p85α chain 83.5 kDa, p110β chain 124.3 kDa.
Biological Activity: ~ 3 nmol/mg/min using Phosphatidylinositol as the substrate.

Storage: Store the antigen undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.