abcam

Product datasheet

Recombinant human PI 3 Kinase p110 delta + PI 3 Kinase p85 alpha protein AB60892

1 Image

Description

Product name	Recombinant human PI 3 Kinase p110 delta + PI 3 Kinase p85 alpha protein
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Specifications

Our Abpromise guarantee covers the use of **ab60892** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Full length p110 Delta - Tagged. Full length p85 - NOT TAGGED.

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.0462% DTT, 0.395% Tris HCl, 0.05% Tween, 50% Glycerol, 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

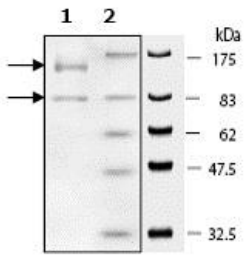
General Info

Relevance	PI3-Kinases (PI3-Ks) are a family of lipid kinases that are implicated in signal transduction. PI3-K consists of two subunits; p85 and p110. The p85 subunit localize PI3-K activity to the plasma membrane while the p110 subunit contains the catalytic domain of PI3-K. Four isoforms of p110 has been found; the alpha, beta, gamma, and the delta subunit. The delta isoform is

predominantly expressed in leukocytes and has been shown to interact with p85 and GTP-bound Ras via its SH2/SH3 domain. The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that is thought to phosphorylate second messengers in growth signalling pathways. PI3K exists as a heterodimer of catalytic 110 kDa (p110) and regulatory 85 kDa (p85, p50 or p55) subunits. The p85 unit consists of two closely related proteins: p85 alpha, which binds tightly to the catalytic subunit and p85 beta, a protein of unknown function. They share 62% amino acid sequence identity. p85 alpha lacks PI3 kinase activity, but may serve as regulator of the catalytic subunit, p110, by acting as the link between PI3K and the ligand activated receptor. Both isoforms bind to activated receptors and serve as tyrosine kinase substrates.

Cellular localization Cytoplasmic

Images



SDS-PAGE - Recombinant human PI 3 Kinase p110 delta + PI 3 Kinase p85 alpha protein (ab60892)

Lane 1: 3µg of ab60892.

Lane 2: Protein marker.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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