PI 3-kinase p85β (N-14): sc-131325



The Power to Question

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 p85 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.

CHROMOSOMAL LOCATION

Genetic locus: PIK3R2 (human) mapping to 19p13.11; Pik3r2 (mouse) mapping to 8 B3.3.

SOURCE

Pl 3-kinase p85 β (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Pl 3-kinase p85 β of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-131325 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

PI 3-kinase p85 β (N-14) is recommended for detection of PI 3-kinase p85 β of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PI 3-kinase p85 β siRNA (h): sc-39125, PI 3-kinase p85 β siRNA (m): sc-39126, PI 3-kinase p85 β siRNA (m): sc-156022, PI 3-kinase p85 β shRNA Plasmid (h): sc-39125-SH, PI 3-kinase p85 β shRNA Plasmid (m): sc-39126-SH, PI 3-kinase p85 β shRNA Plasmid (r): sc-156022-SH, PI 3-kinase p85 β shRNA (h) Lentiviral Particles: sc-39125-V, PI 3-kinase p85 β shRNA (m) Lentiviral Particles: sc-39126-V and PI 3-kinase p85 β shRNA (r) Lentiviral Particles: sc-156022-V.

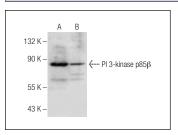
Molecular Weight of PI 3-kinase p85β: 85 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, K-562 whole cell lysate: sc-2203 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PI 3-kinase p85 β (N-14): sc-131325. Western blot analysis of PI 3-kinase p85 β expression in BJAB (**A**) and K-562 (**B**) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **PI 3-kinase p85β (T15): sc-56934**, our highly recommended monoclonal alternative to PI 3-kinase p85β (N-14).

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