**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. p110α expression is restricted to white blood cells. It has been shown to bind p85α and p85β, but it apparently does not phosphorylate these subunits. p110α seems to have the capacity to autophosphorylate. p110α does not interact with the p85 subunits. It has been shown to be activated by α and βγ heterotrimeric G proteins.

**SOURCE**

PI 3-kinase p110γ (H-199) is a rabbit polyclonal antibody raised against amino acids 331-530 mapping at the N-terminus of PI 3-kinase p110γ of human origin.

**PRODUCT**

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

**APPLICATIONS**

PI 3-kinase p110γ (H-199) is recommended for detection of PI 3-kinase p110γ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). PI 3-kinase p110γ (H-199) is also recommended for detection of PI 3-kinase p110γ in additional species, including canine, bovine, porcine and avian.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**RESEARCH USE**

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

**DATA**

![Western blot analysis](image)

**SELECTED PROTOCOLS**

Try PI 3-kinase p110γ (D-12): sc-166365, our highly recommended monoclonal alternative to PI 3-kinase p110γ (H-199).