

# PI3 Kinase Antibody Sampler Kit

Cat# AK0242

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

## PRODUCT DESCRIPTION

Phosphoinositide 3-kinase (PI3K) catalyzes the production of phosphatidylinositol-3,4,5-triphosphate by phosphorylating phosphatidylinositol (PI), phosphatidylinositol-4-phosphate (PIP), and phosphatidylinositol-4,5-bisphosphate (PIP2). Growth factors and hormones trigger this phosphorylation event, which in turn coordinates cell growth, cell cycle entry, cell migration, and cell survival. PTEN reverses this process, and research studies have shown that the PI3K signaling pathway is constitutively activated in human cancers that have loss of function of PTEN. PI3Ks are composed of a catalytic subunit (p110) and a regulatory subunit. Various isoforms of the catalytic subunit (p110  $\alpha$ , p110  $\beta$ , p110  $\gamma$ , and p110  $\delta$ ) have been isolated, and the regulatory subunits that associate with p110  $\alpha$ , p110  $\beta$ , and p110  $\delta$  are p85  $\alpha$  and p85  $\beta$ . In contrast, p110  $\gamma$  associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110  $\gamma$  is activated by  $\beta \gamma$  subunits of heterotrimeric G proteins.

## PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340636	PI 3 kinase p85 alpha /gamma Polyclonal Antibody	20 $\mu$ L	WB, IHC, IF, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340274	Phospho-PI 3 kinase p85 alpha /gamma (Tyr467/199) Polyclonal Antibody	20 $\mu$ L	WB, IHC, IF, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340635	PI 3 kinase p85 alpha Polyclonal Antibody	20 $\mu$ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340637	PI 3 kinase p85 beta Polyclonal Antibody	20 $\mu$ L	WB, ELISA	Human, Mouse, Rat	Rabbit
A340634	PI 3 kinase p110 alpha Polyclonal Antibody	20 $\mu$ L	WB, IHC, ELISA	Human, Mouse	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120 $\mu$ L	WB, ELISA	Rabbit	Goat

## **PRODUCT USE LIMITATION**

These products are intended for research use only.