Human Phosphotylinositol 3 kinase (PI3K) ELISA Kit

Catalog No: #EK8524

Package Size: #EK8524-1 48T #EK8524-2 96T

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Description

Product Name	Human Phosphotylinositol 3 kinase (PI3K) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.625-40 ng/mL

Sensitivity:0.156 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PI3K in samples. An antibody specific for PI3K has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPI3K present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PI3K is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PI3K bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Phosphoinositide 3-kinases (PI3Ks) phosphorylate the 3-prime OH position of the inositol ring of inositol lipids. They have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kD catalytic subunit, such as PIK3CB, and an 85-kD adaptor subunit.
The predicted 1,070-amino acid protein, called p110-beta by them, is 42% identical to that of bovine p110. Northern blot analysis revealed that the major 4.8-kb p110-beta transcript was expressed in several human and rodent cell lines, as well as in all mouse tissues tested. Minor larger transcripts were detected in some tissues and cell lines.

Note: This product is for in vitro research use only