Mouse Phosphatidylinositol 3-kinase regulatory subunit beta (PIK3R2) ELISA Kit

Catalog No: #EK8505

Package Size: #EK8505-1 48T #EK8505-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Phosphatidylinositol 3-kinase regulatory subunit beta (PIK3R2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	P85B; p85; p85-BETA; phosphatidylinositol 3-kinase; regulatory subunit; polypeptide 2 (p85 beta)|phosphoinositide-3-kinase; regulatory subunit 2 (p85 beta)|phosphoinositide-3-kinase; regulatory subu
Accession No.	O08908
Uniprot	O08908
GeneID	18709;
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:23.44-1500 pg/mL

Sensitivity:5.86 pg/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 PIK3R2 in samples. An antibody specific for PIK3R2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIK3R2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIK3R2 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 PIK3R2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates the inositol ring of phosphatidylinositol and related compounds at the 3-prime position. The products of these reactions serve as second messengers in growth signaling pathways. The kinase itself is made up of a catalytic subunit of molecular mass 110 kD (PIK3CA) and a regulatory subunit of either 85 kD, 55 kD, or 50 kD.

Both p85-alpha and p85-beta bound Xbp1s and increased its nuclear translocation, and it appeared that the p110 PI3K catalytic subunit and Xbp1s competed for binding of these regulatory subunits. p85-alpha and p85-beta formed an inactive dimer that was disrupted by insulin in a time-dependent manner, which promoted their association with Xbp1s.

Note: This product is for in vitro research use only