PI3 Kinase p85 (Phospho-Tyr458)/p55 (Phospho-Tyr199) Rabbit mAb

Catalog No: #12157

Package Size: #12157-1 50ul #12157-2 100ul

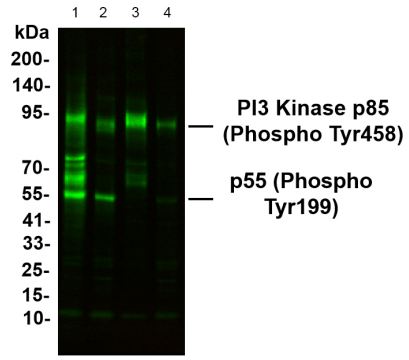
Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	PI3 Kinase p85 (Phospho-Tyr458)/p55 (Phospho-Tyr199) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SR4571
Isotype	IgG
Purification	Protein A
Applications	ELISA,WB,IF,FC
Species Reactivity	Human,Mouse,Rat
Specificity	PI3 Kinase p85 (Phospho Tyr458)/p55 (Phospho Tyr199) detects endogenous levels of PI3 kinase p85/p55 only when phosphorylated at Human:Y467/Y199, Mouse:Y467/Y199, Rat:Y467/Y199..The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RLyEE
Immunogen Description	The antibody binds to the following modification sequence (lowercase letters are modification sites):RLyEE
Target Name	PIK3R1/PIK3R2/PIK3R3
Other Names	PIK3R1 ; GRB1 ; Phosphatidylinositol 3-kinase regulatory subunit alpha ; PI3-kinase regulatory subunit alpha ; PI3K regulatory subunit alpha ; PtdIns-3-kinase regulatory subunit alpha ; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha ; PI3-kinase subunit p85-alpha ; PtdIns-3-kinase regulatory subunit p85-alpha ; PIK3R2 ; Phosphatidylinositol 3-kinase regulatory subunit beta ; PI3-kinase regulatory subunit beta ; PI3K regulatory subunit beta ; PtdIns-3-kinase regulatory subunit beta
Calculated MW	85,55kD
SDS-PAGE MW	85,55kD
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

Images



All lanes : PI3 Kinase p85 (Phospho-Tyr458)/p55 (Phospho-Tyr199) Rabbit mAb at 1/1k dilution

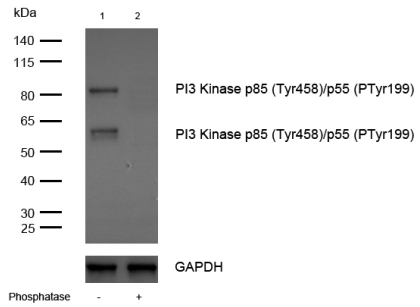
Lane 1 : PC-12 whole cell lysates
Lane 2 : 3T3-L1 whole cell lysates
Lane 3 : PC-3 whole cell lysates
Lane 4 : U-14 whole cell lysates

Lysates/proteins at 20 µg per lane.

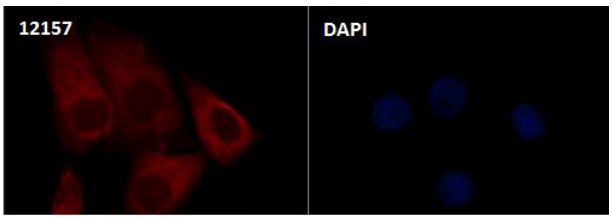
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 85,55 kDa
Observed band size: 85,55 kDa

Exposure time: 5 seconds



All lanes : PI3 Kinase p85 (Phospho-Tyr458)/p55 (Phospho-Tyr199) Rabbit mAb at 1/1k dilutionLane 1 : 3T3 whole cell lysatesLane 2 : 3T3 treated with Lambda Protein Phosphatase for 30min whole cellLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 85,55 kDa Observed band size: 85,55 kDaExposure time: 7 seconds



Immunocytochemistry/ Immunofluorescence PI3 Kinase p85 (Phospho-Tyr458)/p55 (Phospho-Tyr199) antibody (12157)

ICC/IF staining of PI3 Kinase p85 (Phospho-Tyr458)/p55 (Phospho-Tyr199) in PC-3M cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 12157 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.

Background

Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in four transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011],