

Datasheet for ABIN5557518
anti-PIK3R1 antibody



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2 Images

Overview

Quantity:	100 µL
Target:	PIK3R1 (PI3K p85a)
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PIK3R1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	Recombinant human PI3-kinase p85 subunit alpha protein, around 600-700aa.
Clone:	9B3
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	PIK3R1 (PI3K p85a)
Alternative Name:	PIK3R1 (PI3K p85a Products)
Background:	Synonyms: Phosphatidylinositol 3-kinase regulatory subunit alpha, PIK3R1, PI3-kinase regulatory subunit alpha, PI3K regulatory subunit alpha, PtdIns-3-kinase regulatory subunit

Target Details

alpha, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha, PIK3R1, GRB1, PI3-kinase subunit p85-alpha, PtdIns-3-kinase regulatory subunit p85-alpha

Background: Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p11 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Plays an important role in signaling in response to FGFR1, FGFR2, FGFR3, FGFR4, KITLG/SCF, KIT, PDGFRA and PDGFRB. Likewise, plays a role in ITGB2 signaling.

Gene ID: 5295

UniProt: [P27986](#)

Pathways: [TCR Signaling](#), [Response to Growth Hormone Stimulus](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [VEGF Signaling](#), [BCR Signaling](#), [Warburg Effect](#)

Application Details

Application Notes: WB 1:300-5000
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 % Glycerol and 0.05 % Sodium Azide.

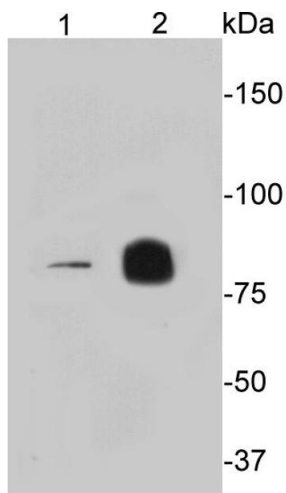
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

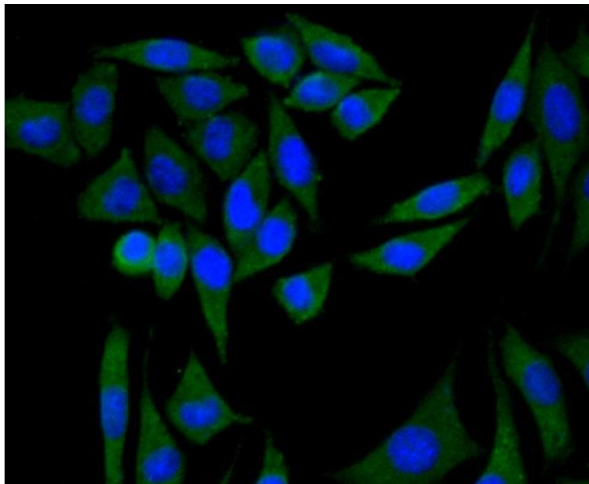
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months



Western Blotting

Image 1. Lane 1: U937, Lane 2: Raji cell lysate probed with PIK3R1 (9B3) Monoclonal Antibody at 1:1000 overnight at 4°C. Followed by a conjugated secondary antibody.



Immunofluorescence (Cultured Cells)

Image 2. MCF7 cells were fixed with paraformaldehyde, permeabilized with 0.25% Triton X-100 in PBS, blocked with 10% normal goat serum in PBS, and stained with PIK3R1 (9B3) Monoclonal Antibody at 1:200 in blocking solution. Slides were incubated overnight at 4°C followed by FITC conjugated secondary antibody incubation and DAPI staining of the nucleus.