



Datasheet for ABIN6256668

anti-PI3K p85 alpha/gamma antibody (pTyr199, pTyr467)



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3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	PI3K p85 alpha/gamma (PI3K p85a/g)
Binding Specificity:	pTyr199, pTyr467
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PI3K p85 alpha/gamma antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PI3-kinase p85- alpha/ gamma around the phosphorylation site of Tyrosine 467/199
Isotype:	IgG
Specificity:	Phospho-PI3-kinase p85- alpha/ gamma (Tyr467/199) Antibody detects endogenous levels of PI3-kinase p85- alpha/ gamma only when phosphorylated at Tyrosine 467/199
Cross-Reactivity:	Human, Monkey, Mouse (Murine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	PI3K p85 alpha/gamma (PI3K p85a/g)
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Target Details

Alternative Name: PI3-kinase p85 alpha/ gamma ([PI3K p85a/g Products](#))

Background: Description: Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 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 (PubMed:17626883, PubMed:19805105, PubMed:7518429). Modulates the cellular response to ER stress by promoting nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PubMed:20348923).

Gene: PIK3R1

Molecular Weight: 54,83kDa

Gene ID: 5295

UniProt: [P27986](#), [Q92569](#)

Application Details

Application Notes: WB 1:500-1:2000 IF/ICC 1:100-1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

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

Storage: -20 °C

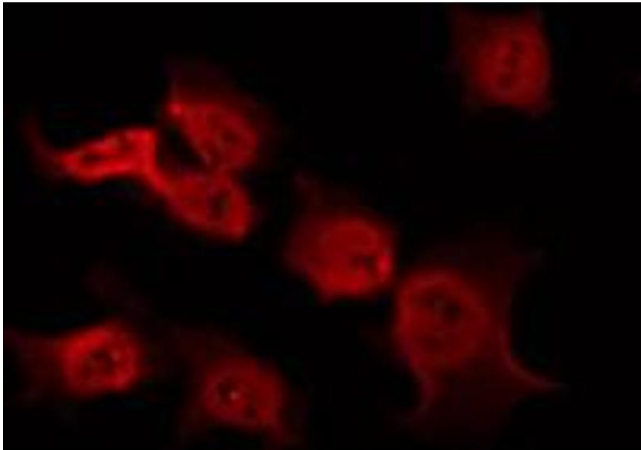
Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt

Expiry Date: 12 months

Product cited in:

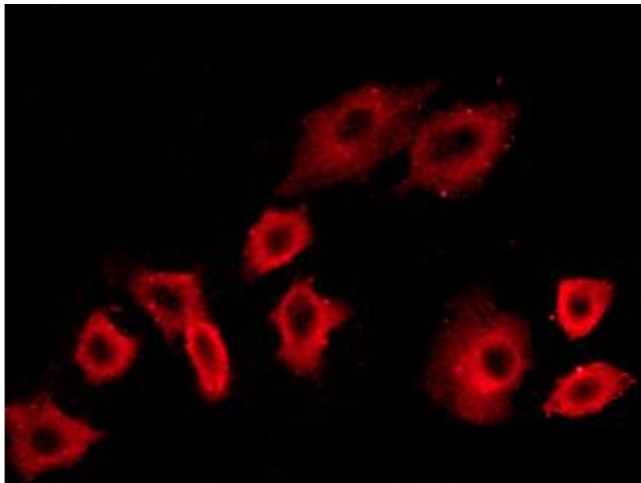
Qin, Qiao, Wang, Li, Li, Gong, Zhang, Fu: "An Extracellular Matrix-Mimicking Hydrogel for Full Thickness Wound Healing in Diabetic Mice." in: **Macromolecular bioscience**, Vol. 18, Issue 7, pp. e1800047, (2018) ([PubMed](#)).

Images



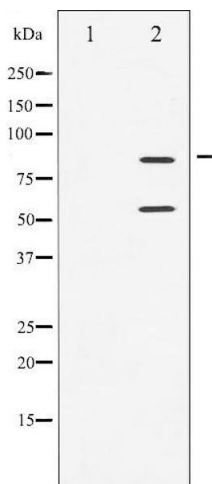
Immunofluorescence (fixed cells)

Image 1. ABIN6267453 staining COS7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Immunofluorescence (fixed cells)

Image 2. ABIN6267453 staining NIH/3T3 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



Western Blotting

Image 3. Western blot analysis of PI3-kinase p85- alpha/ gamma phosphorylation expression in H2O2 treated COS7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.