

Datasheet for ABIN392570

**anti-PIK3R1 antibody (N-Term)**

5 Images

1 Publication

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## Overview

Quantity:	400 µL
Target:	PIK3R1 (PI3K p85a)
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3R1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Flow Cytometry (FACS)

## Product Details

Immunogen:	This PI3KR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PI3KR1.
Clone:	RB11634
Isotype:	Ig Fraction
Predicted Reactivity:	B, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	PIK3R1 (PI3K p85a)
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## Target Details

Alternative Name:	PI3KR1 ( <a href="#">PI3K p85a Products</a> )
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.
Molecular Weight:	83598
Gene ID:	5295
NCBI Accession:	<a href="#">NP_001229395</a> , <a href="#">NP_852556</a> , <a href="#">NP_852664</a> , <a href="#">NP_852665</a>
UniProt:	<a href="#">P27986</a>
Pathways:	<a href="#">TCR Signaling</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Hepatitis C</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">VEGF Signaling</a> , <a href="#">BCR Signaling</a> , <a href="#">Warburg Effect</a>

## Application Details

Application Notes:	IF: 1:25. WB: 1:2000. WB: 1:2000. IHC-P-Leica: 1:500. FC: 1:25
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

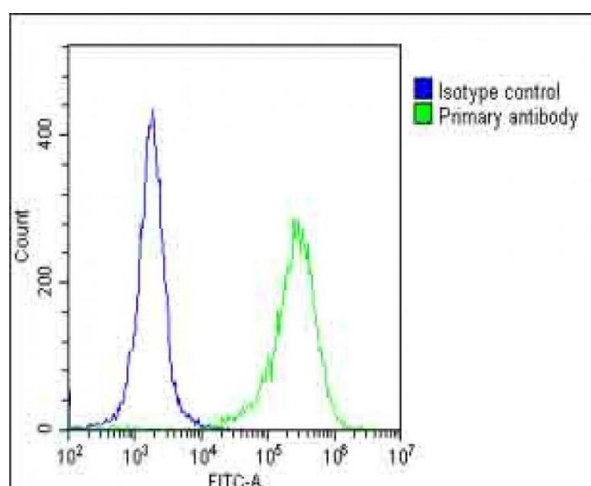
## Publications

Product cited in: Abdelalim, Masuda, Tooyama: "Expression of natriuretic peptide-activated guanylate cyclases by cholinergic and dopaminergic amacrine cells of the rat retina." in: **Peptides**, Vol. 29, Issue 4, pp. 622-8, (2008) ([PubMed](#)).

Dams, Van Acker, Gustin, Vereycken, Bunkens, Holemans, Smeulders, Clayton, Ohagen, Hertogs: "A time-resolved fluorescence assay to identify small-molecule inhibitors of HIV-1 fusion." in: **Journal of biomolecular screening**, Vol. 12, Issue 6, pp. 865-74, (2007) ([PubMed](#)).

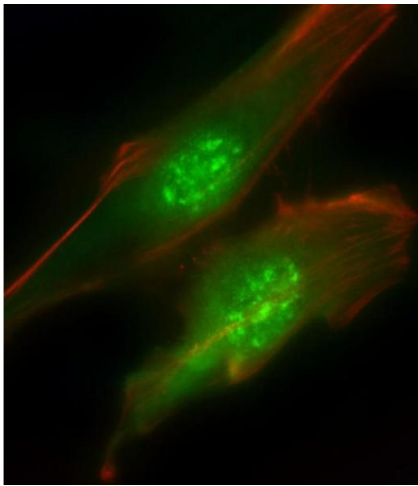
Tomescot, Leschik, Bellamy, Dubois, Messas, Bruneval, Desnos, Hagège, Amit, Itskovitz, Menasché, Pucéat: "Differentiation in vivo of cardiac committed human embryonic stem cells in postmyocardial infarcted rats." in: **Stem cells (Dayton, Ohio)**, Vol. 25, Issue 9, pp. 2200-5, (2007) ([PubMed](#)).

## Images



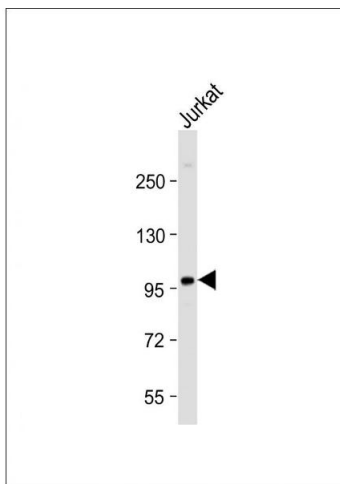
### Flow Cytometry

**Image 1.** Overlay histogram showing HeLa cells stained with (ABIN392570 and ABIN2842109)(green line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then incubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN392570 and ABIN2842109), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.



### Immunofluorescence

**Image 2.** Immunofluorescent analysis of 4 % paraformaldehyde-fixed, 0.1 % Triton X-100 permeabilized HeLa cells labeling PIK3R1 with (ABIN392570 and ABIN2842109) at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Nucleus and Weak Cytoplasm staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (red). The nuclear counter stain is DAPI (blue).



### Western Blotting

**Image 3.** Anti-PI3KR1 Antibody (N-term L11) at 1:2000 dilution + Jurkat whole cell lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 84 kDa. Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN392570.