

Datasheet for ABIN392593

anti-PIP5K1A antibody (N-Term)**2** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	PIP5K1A
Binding Specificity:	AA 19-50, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIP5K1A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This PIP5K1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-50 amino acids from the N-terminal region of human PIP5K1A.
Clone:	RB01727
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PIP5K1A
Alternative Name:	PIP5K1A (PIP5K1A Products)

Target Details

Background:	Overexpression of phosphatidylinositol phosphate 5-kinase alpha (PIP5K1alpha), which synthesizes PIP2, suppresses apoptosis, whereas a kinase-deficient mutant does not. Protection by the wild-type PIP5K1alpha is accompanied by decreases in the generation of activated caspases and of caspase 3-cleaved PARP. Protection is not mediated through PIP3 or Akt activation. An anti-apoptotic role for PIP(2) is substantiated by the finding that PIP5K1alpha is cleaved by caspase 3 during apoptosis, and cleavage inactivates PIP5K1alpha in vitro. Mutation of the P(4) position (D279A) of the PIP5K1alpha caspase 3 cleavage consensus prevents cleavage in vitro, and during apoptosis in vivo. Significantly, the caspase 3-resistant PIP5K1alpha mutant is more effective in suppressing apoptosis than the wild-type kinase. PIP2 is a direct regulator of apical and effector caspases in the death receptor and mitochondrial pathways, and PIP5K1alpha inactivation contributes to the progression of apoptosis.
Molecular Weight:	62633
Gene ID:	8394
NCBI Accession:	NP_001129108 , NP_001129109 , NP_001129110 , NP_003548
UniProt:	Q99755
Pathways:	PI3K-Akt Signaling , Mitotic G1-G1/S Phases , Inositol Metabolic Process , DNA Replication , Cell-Cell Junction Organization , Synthesis of DNA

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000
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.

Handling

Expiry Date: 6 months

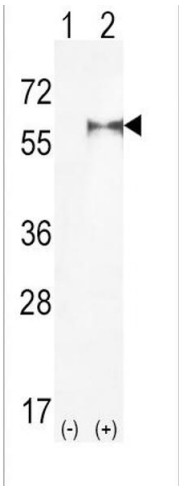
Publications

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](#)).

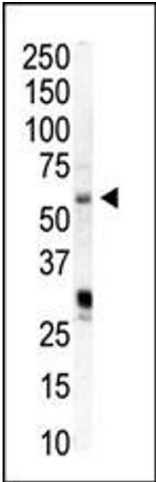
Tomescot, Leschik, Bellamy, Dubois, Messas, Bruneval, Desnos, Hagège, Amit, Itskovitz, Menasché, Pucéat: "Differentiation in vivo of cardiac committed human embryonic stem cells in postmyocardial infarcted rats." in: **Stem cells (Dayton, Ohio)**, Vol. 25, Issue 9, pp. 2200-5, (2007) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of PIP5K1A (arrow) using rabbit polyclonal hPIP5K1A-R34 (ABIN392593 and ABIN2842123). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PIP5K1A gene.



Western Blotting

Image 2. Western blot analysis of anti-PIP5K1A Pab (ABIN392593 and ABIN2842123) in HeLa cell lysate. PIP5K1A (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.