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anti-PI4K2A antibody (N-Term)



Images



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Overview	
Quantity:	400 μL
Target:	PI4K2A
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PI4K2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

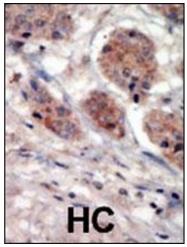
lmmunogen:	This PI4K2A (PI4K II) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PI4K2A (PI4K II).
Clone:	RB1679
Isotype:	lg Fraction
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	PI4K2A
Alternative Name:	PI4K2A (PI4K II) (PI4K2A Products)

Target Details

Background:	Phosphatidylinositolpolyphosphates (PtdInsPs) are centrally involved in many biologic processes, ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4KII phosphorylates PtdIns at the D-4 position, an essential step in the biosynthesis of PtdInsPs. PI4K II is activated by detergent and inhibited by adenosine. Overexpression of PI4KII in COS-7 cells increases synthesis of PtdIns4P. Some cells overexpressing PI4KII have scattered or no perinuclear Golgi. Knockdown of PI4KII by RNA interference (RNAi) does not disrupt the Golgi, and some cells show expanded Golgi. RNAi reduces the Golgi level of PtdIns4P and blocks the association between AP1 and the trans-Golgi network. PI4KII RNAi had little effect on intra-Golgi trafficking, but it inhibited export to plasma membrane export by 35 %. It has been proposed that PI4KII generates PtdIns4P-rich domains within the Golgi that specify docking of the AP1 coat machinery.
Molecular Weight:	54022
Gene ID:	55361
NCBI Accession:	NP_060895
UniProt:	Q9BTU6
Pathways:	Inositol Metabolic Process, Synaptic Membrane
Application Details	
Application Notes:	IF: 1:10~50. WB: 1:8000. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified monoclonal 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



HC

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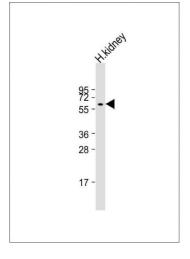
Immunofluorescence

Image 2. Negative control of hela cells without Alexa-Fluor-546-conjugated donkey anti-rabbit IgG (H+L).Alexa-Fluor-546 emits orange fluorescence. Immunofluorescence analysis of PI4K2A (PI4K II) Antibody (N-term) in HeLa cells. 0.025 mg/mL primary antibody was followed by Alexa-Fluor-546-conjugated donkey anti-rabbit IgG (H+L).

Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human

cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC =



Western Blotting

Image 3. Anti-PI4K II Antibody (C-term) at 1:8000 dilution + human kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 54 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the product details page for more images. Overall 5 images are available for ABIN392587.