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Datasheet for ABIN1882113
anti-PIK3CA antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	PIK3CA
Binding Specificity:	AA 1019-1050, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3CA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This PI3KCA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1019-1050 amino acids from the C-terminal region of human PI3KCA.
Clone:	RB01702
Isotype:	Ig Fraction
Predicted Reactivity:	B
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PIK3CA
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Target Details

Alternative Name:	PI3KCA (PIK3CA Products)
Background:	Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. This protein represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. PI3KCA has been found to be oncogenic and has been implicated in cervical cancers.
Molecular Weight:	124284
NCBI Accession:	NP_006209
UniProt:	P42336
Pathways:	PI3K-Akt Signaling , RTK Signaling , TCR Signaling , AMPK Signaling , Interferon-gamma Pathway , TLR Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Inositol Metabolic Process , Hepatitis C , CXCR4-mediated Signaling Events , Signaling Events mediated by VEGFR1 and VEGFR2 , Signaling of Hepatocyte Growth Factor Receptor , VEGFR1 Specific Signals , VEGF Signaling

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

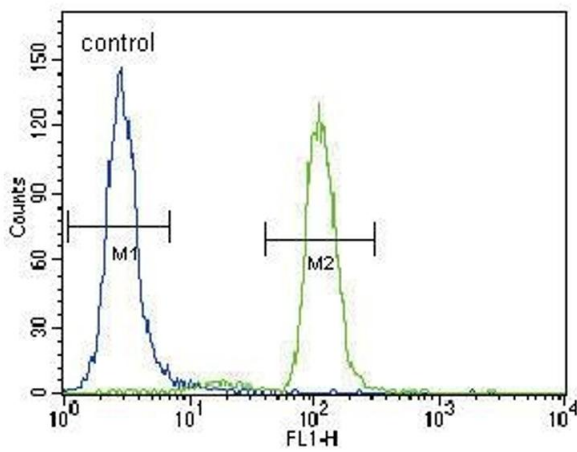
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
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.
Expiry Date:	6 months

Product cited in:

Guzel, Yazici, Pek, Doganay, Simsek, Saglam, Turan, Yazici: "Atrial natriuretic peptide and posterior pituitary neurohormone changes in patients with acute schizophrenia." in: **Neuropsychiatric disease and treatment**, Vol. 14, pp. 1855-1860, (2018) ([PubMed](#)).

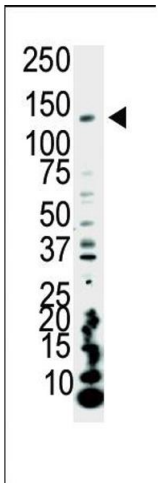
Yuksel, Ital, Balaban, Kocak, Seven, Kucur, Erbakirci, Keskin: "Immediate breastfeeding and skin-to-skin contact during cesarean section decreases maternal oxidative stress, a prospective randomized case-controlled study." in: **The journal of maternal-fetal & neonatal medicine**, Vol. 29, Issue 16, pp. 2691-6, (2017) ([PubMed](#)).

Images



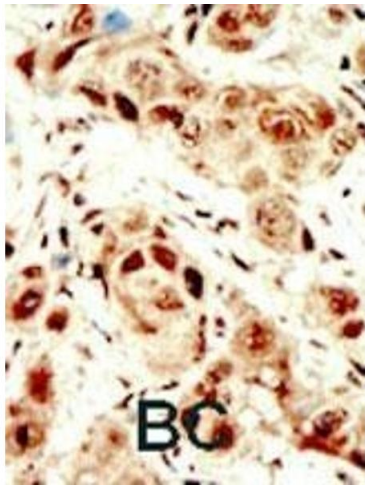
Flow Cytometry

Image 1. PIK3CA Antibody (C-term) (ABIN1882113 and ABIN2842103) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Western blot analysis of anti-PI3KCA Pab (ABIN1882113 and ABIN2842103) in HeLa cell lysate. PI3KCA (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. 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 = hepatocarcinoma.