Datasheet for ABIN391022

anti-AKT2 antibody (C-Term)

4 Images

Go to Product page

Overview

Quantity:	400 µL
Target:	AKT2
Binding Specificity:	AA 416-444, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKT2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This AKT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 416-444 amino acids from the C-terminal region of human AKT2.
Clone:	RB15717
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	AKT2

Target Details

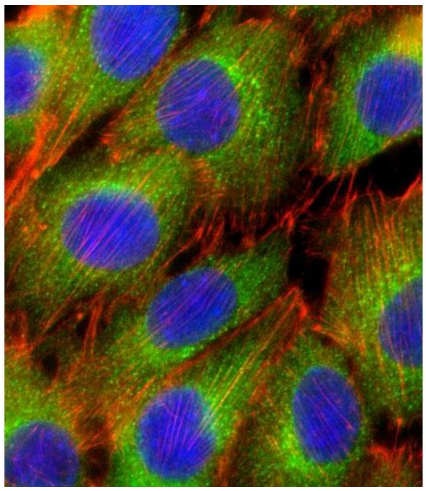
Alternative Name:	AKT2 (AKT2 Products)
Background:	AKT2 is a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. AKT2 has been shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression of AKT2 contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. AKT2 is a general protein kinase capable of phophorylating several known proteins.
Molecular Weight:	55769
Gene ID:	208
NCBI Accession:	NP_001617
UniProt:	P31751
Pathways:	PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, TLR Signaling, Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Hepatitis C, VEGF Signaling

Application Details

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

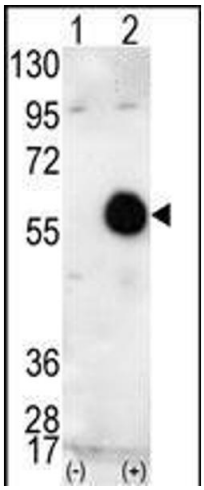
Handling

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.
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



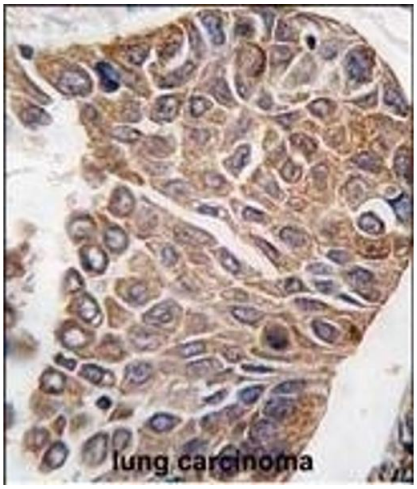
Immunofluorescence

Image 1. Fluorescent confocal image of C2C12 cell stained with AKT2 Antibody (C-term) (ABIN391022 and ABIN2841192). C2C12 cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with AKT2 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). Nuclei were counterstained with DI (blue) (10 µg/mL, 10 min).AKT2 immunoreactivity is localized to Cytoplasm significantly.



Western Blotting

Image 2. Western blot analysis of AKT2 (arrow) using AKT2 Antibody (C-term) (ABIN391022 and ABIN2841192). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the AKT2 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with AKT2 antibody (C-term), 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.

Please check the product details page for more images. Overall 4 images are available for ABIN391022.