

Datasheet for ABIN559827
anti-AKT1 antibody (AA 381-480)

5 Images



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Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | AKT1 |
| Binding Specificity: | AA 381-480 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This AKT1 antibody is un-conjugated |
| Application: | ELISA, Immunoprecipitation (IP), Proximity Ligation Assay (PLA), RNA Interference (RNAi) |

Product Details

| | |
|-------------------|--|
| Purpose: | Mouse monoclonal antibody raised against a partial recombinant AKT1. |
| Immunogen: | AKT1 (AAH00479, 381 a.a. ~ 480 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Sequence: | SGLLKKDPKQ RLGGGSEDAK EIMQHRFFAG IVWQHVEYKK LSPPFKPQVT SETDTRYFDE EFTAQMITIT PPDQDDSMC VDSERRPHFP QFSYSASGTA |
| Clone: | 4C3 |
| Isotype: | IgG2a |
| Cross-Reactivity: | Human |
| Characteristics: | Antibody Reactive Against Recombinant Protein. |

Target Details

Target: AKT1

Alternative Name: AKT1 ([AKT1 Products](#))

Background: Full Gene Name: v-akt murine thymoma viral oncogene homolog 1
Synonyms: AKT,MGC99656,PKB,PKB-ALPHA,PRKBA,RAC,RAC-ALPHA

Gene ID: 207

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](#), [Response to Water Deprivation](#), [Regulation of Actin Filament Polymerization](#), [Carbohydrate Homeostasis](#), [Glycosaminoglycan Metabolic Process](#), [Cellular Glucan Metabolic Process](#), [Regulation of Muscle Cell Differentiation](#), [Cell-Cell Junction Organization](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#), [Regulation of Carbohydrate Metabolic Process](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Negative Regulation of intrinsic apoptotic Signaling](#), [Thromboxane A2 Receptor Signaling](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [Positive Regulation of fat Cell Differentiation](#), [VEGFR1 Specific Signals](#), [VEGF Signaling](#), [Warburg Effect](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

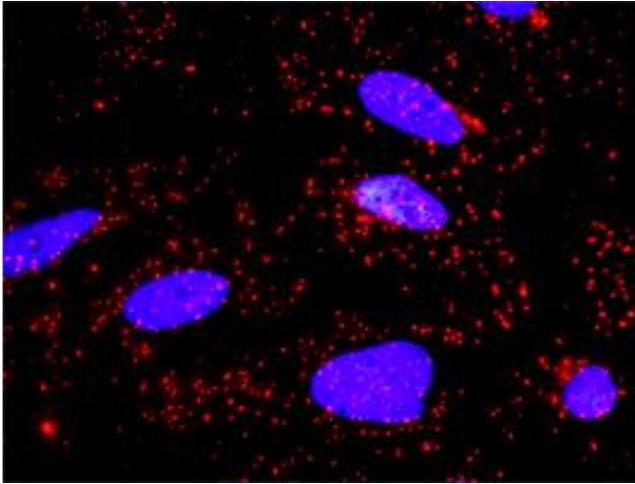
Handling

Buffer: In 1x PBS, pH 7.4

Handling Advice: Aliquot to avoid repeated freezing and thawing.

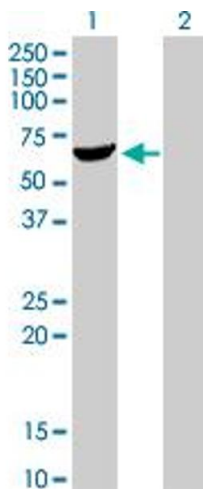
Storage: -20 °C

Storage Comment: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.



Proximity Ligation Assay

Image 1. Proximity Ligation Analysis of protein-protein interactions between APPL1 and AKT1. HeLa cells were stained with anti-APPL1 rabbit purified polyclonal 1:1200 and anti-AKT1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

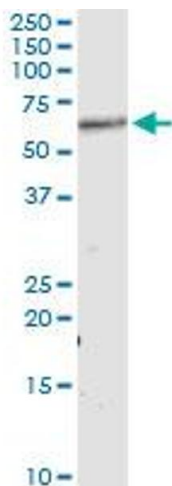


Western Blotting

Image 2. Western Blot analysis of AKT1 expression in transfected 293T cell line by AKT1 monoclonal antibody (M01), clone 4C3.

Lane 1: AKT1 transfected lysate(55.7 KDa).

Lane 2: Non-transfected lysate.



Immunoprecipitation

Image 3. Immunoprecipitation of AKT1 transfected lysate using anti-AKT1 monoclonal antibody and Protein A Magnetic Bead , and immunoblotted with AKT1 MaxPab rabbit polyclonal antibody.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN559827.