

Datasheet for ABIN1724720

anti-AKT2 antibody

3 Images

2 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	AKT2
Reactivity:	Human, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AKT2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human AKT2 expressed in E. coli.
Clone:	1B6
Isotype:	IgG2b
Purification:	purified

Target Details

Target:	AKT2
Alternative Name:	AKT2 (AKT2 Products)
Background:	Description: Akt2 (also designated protein kinase B beta or v-akt murine thymoma viral oncogene homolog 2), with 481-amino acid protein (about 53 kDa), belongs to the AKT serine/threonine protein kinase family, which also includes Akt1 and Akt3. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis,

Target Details

tumorigenesis, as well as glycogen synthesis and glucose uptake. Among the members of AKT family, Akt2 is associated with the development of human cancers. Akt2 inhibits cisplatin-induced JNK/p38 and Bax activation through phosphorylation of ASK1 and thus, plays an important role in chemoresistance. Further, Akt2 plays a specific role in muscle differentiation. Aliases: PKBB, PRKBB, PKBBETA, RAC-BETA

Molecular Weight: 60 kDa

Gene ID: 208

HGNC: 208

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: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

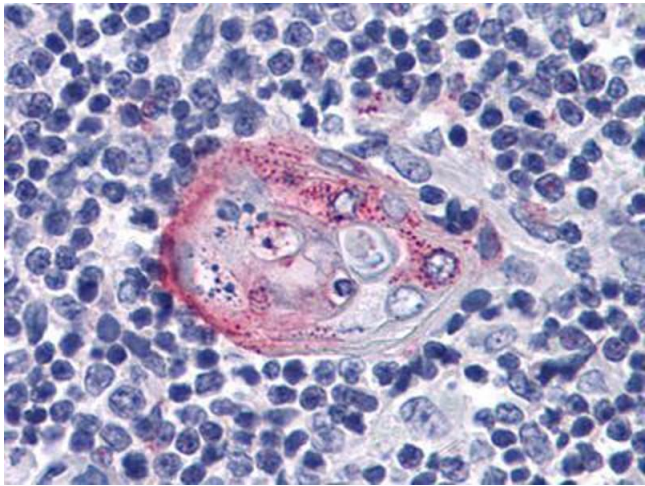
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

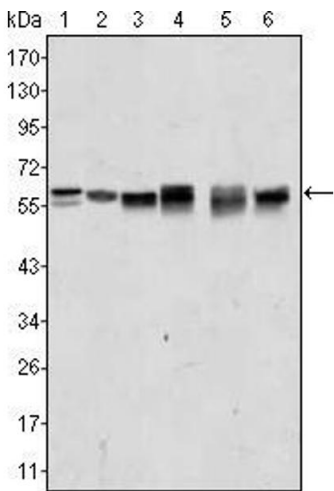
Publications

Product cited in: Yoshida, Ishikawa, Niitsu, Nakazato, Watanabe, Shiraishi, Shiina, Hashimoto, Kanahara, Hasegawa, Enohara, Kimura, Iyo, Hashimoto: "Decreased serum levels of mature brain-derived neurotrophic factor (BDNF), but not its precursor proBDNF, in patients with major depressive disorder." in: **PLoS ONE**, Vol. 7, Issue 8, pp. e42676, (2012) ([PubMed](#)).



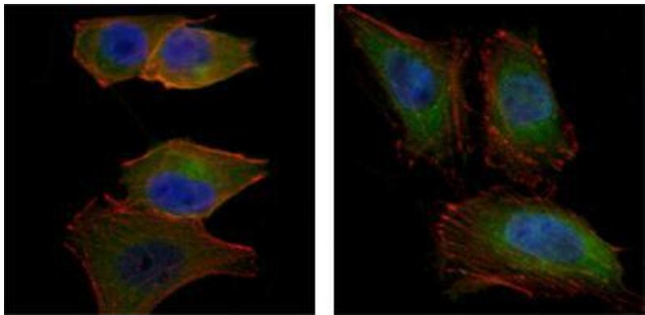
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human Thymus tissues using anti-AKT2 mAb



Western Blotting

Image 2. Western blot analysis using AKT2 mouse mAb against A431 (1), Jurkat (2), HEK293 (3), A549 (4), MCF-7 (5) and PC-12 (6) cell lysate.



Immunofluorescence

Image 3. Immunofluorescence analysis of PANC-1 (left) and Hela (right) cells using AKT2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.