

Product Name: KD-Validated AKT3 Mouse Monoclonal Antibody**Catalog #: KVA01245**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG3
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:200-1:1,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 55.8kDa

Antigen Information

Gene Name	AKT3
Alternative Names	AKT3; AKT Serine/Threonine Kinase 3; PKBG; RAC-Gamma; PRKBG; RAC-Gamma Serine/Threonine-Protein Kinase; RAC-PK-Gamma; EC 2.7.11.1; PKB Gamma; STK-2; V-Akt Murine Thymoma Viral Oncogene Homolog 3 (Protein Kinase B, Gamma); V-Akt Murine Thymoma Viral Oncogene Homolog 3; RAC-Gamma Serine/Threonine Protein Kinase; Protein Kinase B, Gamma; Protein Kinase B Gamma; Protein Kinase Akt-3; PKB-GAMMA; EC 2.7.11; MPPH2; MPPH
Gene ID	10000.0
SwissProt ID	Q9Y243
Immunogen	Recombinant protein of human AKT3

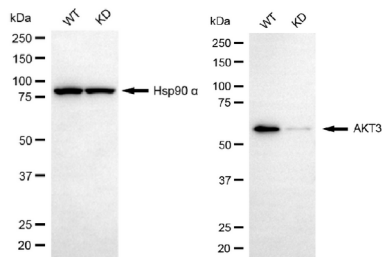
Background

The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

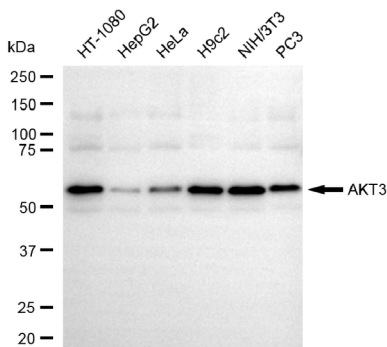
Research Area

Signal Transduction, Cancer

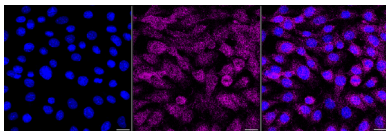
Image Data



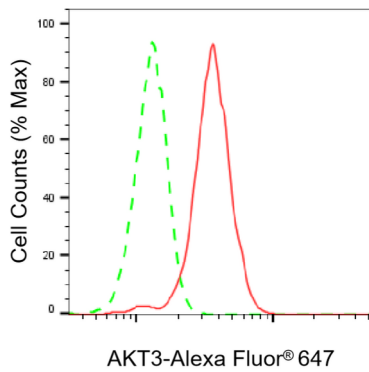
Western blotting analysis using AKT3 antibody (KVAb01245). AKT3 expression in wild-type (WT) and AKT3 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with AKT3 antibody (KVAb01245, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using AKT3 antibody (KVAb01245). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with AKT3 antibody (KVAb01245, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with AKT3 antibody (KVAb01245, 1:1,000). Nuclei were stained blue with DAPI; AKT3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of AKT3 expression in C2C12 cells using AKT3 antibody (KVA01245, 1:2,000). Green, isotype control; red, AKT3.