

Product Name: KD-Validated AKT2 Mouse Monoclonal Antibody**Catalog #: KVA01869**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
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 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 55.8kDa

Antigen Information

Gene Name	AKT2 AKT2; AKT Serine/Threonine Kinase 2; V-Akt Murine Thymoma Viral Oncogene Homolog 2; RAC-Beta Serine/Threonine-Protein Kinase; Protein Kinase B Beta; Protein Kinase Akt-2;
Alternative Names	RAC-PK-Beta; EC 2.7.11.1; PKB Beta; PKBB; Putative V-Akt Murine Thymoma Viral Oncoprotein; Murine Thymoma Viral (V-Akt) Homolog-2; Rac Protein Kinase Beta; RAC Protein Kinase Beta; EC 2.7.11; RAC-BETA; PKBBETA; HIHGHH; PRKBB; PKB β
Gene ID	208.0
SwissProt ID	P31751
Immunogen	Recombinant protein of human AKT2

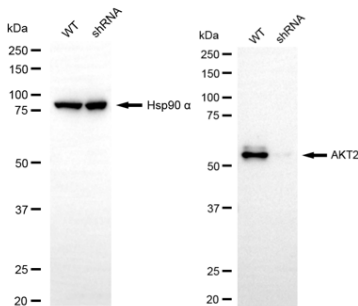
Background

This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains, which is involved in signaling pathways. The gene serves as an oncogene in the tumorigenesis of cancer cells. For example, its overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phosphorylating several known proteins, and has also been implicated in insulin signaling. [provided by RefSeq, Nov 2019]

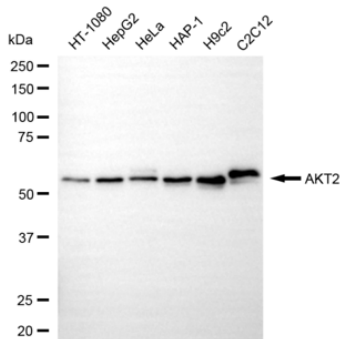
Research Area

Neuroscience, Signal Transduction, Cancer

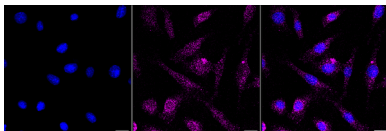
Image Data



Western blotting analysis using AKT2 antibody (KVA01869). AKT2 expression in wild-type (WT) and AKT2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with AKT2 antibody (KVA01869, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using AKT2 antibody (KVA01869). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with AKT2 antibody (KVA01869, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with AKT2 antibody (KVA01869, 1:1,000). Nuclei were stained blue with DAPI; AKT2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Low. Scale bar, 20 µm.