

AKT1 Polyclonal Antibody

Catalog NumberPA5-29169

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Mouse, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 259 of Human AKT1	Immunoprecipitation (IP)	1:100-1:500
		Western Blot (WB)	1:1,000-1:10,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 1 publications below
Concentration	0.47 mg/mL	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA		
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: HA-AKT transfected HeLa cell, mouse liver. Predicted reactivity: Mouse (98%), Rat (97%), Zebrafish (84%), Xenopus laevis (90%), Cat (98%), Pig (96%), Chicken (96%), Sheep (96%), Rhesus Monkey (99%), Bovine (94%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

AKT1 (PKB alpha) is a serine/threonine kinase that regulates cell survival. The activated enzyme inhibits apoptosis and stimulates cell cycle progression by phosphorylating numerous targets in various cell types, including cancer cells. This protein kinase is activated by insulin, PI3K, IGF1 and various other growth and survival factors. Akt promotes cell survival by inhibiting apoptosis through phosphorylation and inactivation of several targets, including forkhead transcription factors, and caspase-9. The AKT pathway is a major target for cancer drug discovery.

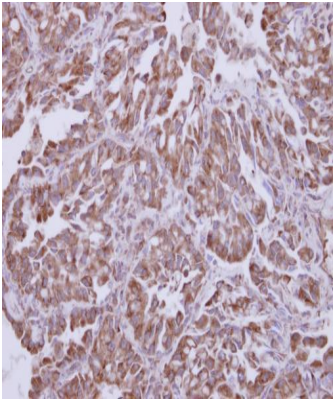
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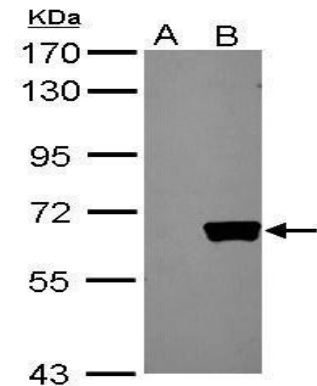
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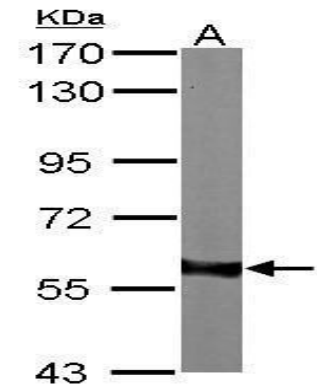
Product Images For AKT1 Polyclonal Antibody



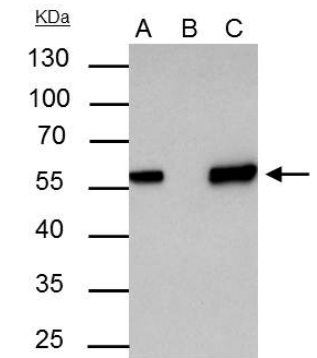
AKT1 Antibody (PA5-29169) in IHC (P)
Immunohistochemical analysis of paraffin-embedded human lung adenocarcinoma, using Akt1 (Product # PA5-29169) antibody at 1:250 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



AKT1 Antibody (PA5-29169) in WB
Western Blot using AKT1 Polyclonal Antibody (Product # PA5-29169). Sample (20 µg of whole cell lysate). Lane A: HeLa cell lysate. Lane B: HeLa cell transfected with AKT . 7.5% SDS PAGE. AKT1 Polyclonal Antibody (Product # PA5-29169) diluted at 1:10,000.



AKT1 Antibody (PA5-29169) in WB
Western Blot using AKT1 Polyclonal Antibody (Product # PA5-29169). Sample (50 µg of whole cell lysate). Lane A: mouse liver . 7.5% SDS PAGE. AKT1 Polyclonal Antibody (Product # PA5-29169) diluted at 1:1,000.

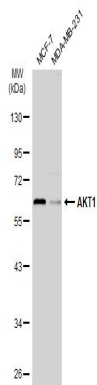


AKT1 Antibody (PA5-29169) in IP
Akt1 antibody immunoprecipitates Akt1 protein in IP experiments. IP samples: 30 µg whole cell extract of Akt1-transfected 293T cells. A. 30 µg whole cell extract of Akt1-protein expressing 293T cell. B. Control with 3 µg of preimmune Rabbit IgG. C. Immunoprecipitation of Akt1 protein by 3 µg Akt1 antibody (Product # PA5-29169). 10 % SDS-PAGE. The immunoprecipitated Akt1 protein was detected by Akt1 antibody (Product # PA5-29169) diluted at 1:5000.

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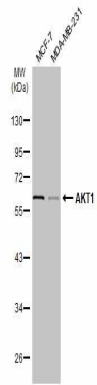
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AKT1 Antibody (PA5-29169) in WB

Western Blot using AKT1 Polyclonal Antibody (Product # PA5-29169). Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with AKT1 Polyclonal Antibody (Product # PA5-29169) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



AKT1 Antibody (PA5-29169) in WB

Western Blot analysis of AKT1 was performed by separating 30 µg of various whole cell extracts by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a AKT1 Polyclonal Antibody (Product # PA5-29169) at a dilution of 1:1000 and a HRP-conjugated anti-rabbit IgG secondary antibody.

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PubMed References For AKT1 Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
Mouse / 1:4000	<p>PA5-29169 was used in Western Blot to investigate the influence of Toll-like receptor 2- (TLR2-) mediated inflammation on the occurrence and development of familial hypertension combined with hyperlipemia and its related mechanism.</p> <p>Journal of healthcare engineering (Apr 2022; 2022:)</p> <p>"Study on Toll-Like Receptor 2-Mediated Inflammation-Induced Familial Hypertension Combined with Hyperlipemia and Its Mechanism."</p> <p>Author(s):Liu J,Li C,Wang Q,Hu H,Li C,Qian J</p> <p>PubMed Article URL:http://dx.doi.org/10.1155/2022/1473597</p>

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