

Basic Information

Product Name	Anti-AKT1 (Phospho-T450) Antibody	
Gene Name	AKT1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, IP	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
Immunogen	A synthesized peptide derived from human AKT1	
concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	56-60KD	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry in paraffin section (IHC):	1:20-100
	Immunoprecipitation:	1:20

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

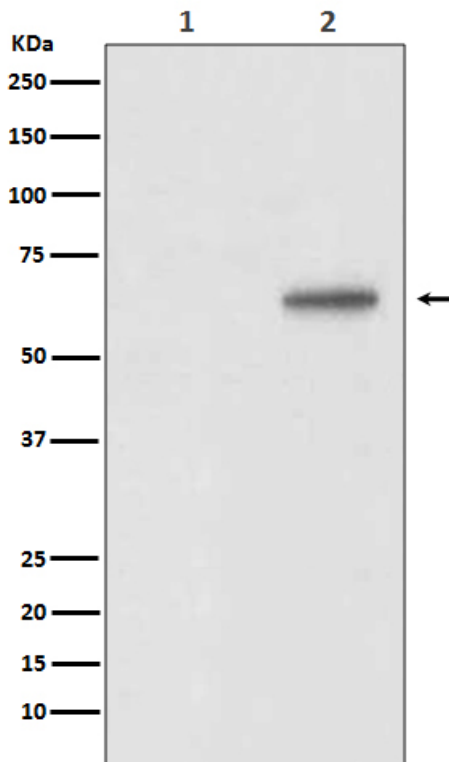
Background Information

RAC-alpha serine/threonine-protein kinase is an enzyme that in humans is encoded by the AKT1 gene. The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

Reference

Anti-AKT1 (Phospho-T450) Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of Phospho-AKT1 (T450) expression in (1) 3T3 cell lysate treated with Lambda Phosphatase; (2) 3T3 cell lysate.

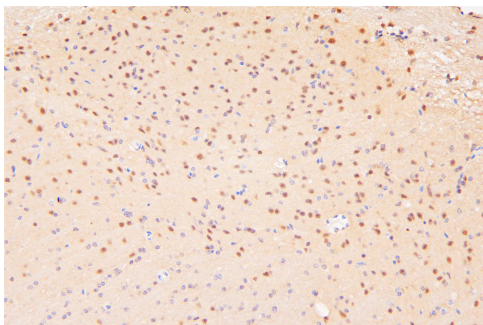


Figure 2. IHC analysis using Anti-Phospho-AKT1 (T450) antibody (BM4721) detected in paraffin-embedded section of mouse brain tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.