

AKT1 Monoclonal Antibody

Catalog No.	A11027	Category	Monoclonal Antibodies
Applications	WB, IHC, IF, IP	Observed MW	56kDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	48kDa/55kDa

Immunogen Information

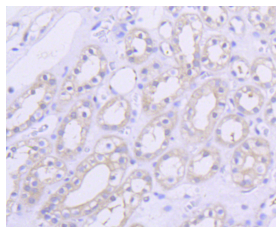
Immunogen	Recombinant protein of human AKT1
Gene ID	207
Swiss prot	P31749
Synonyms	AKT1; AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; AKT serine/threonine kinase 1

Product information

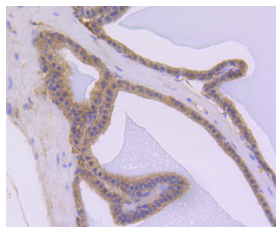
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Background

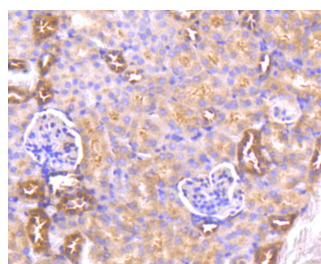
The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin 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.



Immunohistochemistry - AKT1 Monoclonal Antibody (A11027)



Immunohistochemistry - AKT1 Monoclonal Antibody (A11027)



Immunohistochemistry - AKT1 Monoclonal Antibody (A11027)

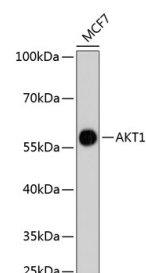
Recommended Dilutions

WB 1:500 -
1:2000

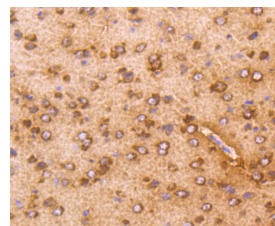
IHC 1:50 -
1:200

IF 1:50 - 1:200

IP 1:20 - 1:50



Western blot - AKT1 Monoclonal Antibody (A11027)



Immunohistochemistry - AKT1 Monoclonal Antibody (A11027)