# AKT polyclonal antibody

Catalog: BZ17037 Host: Rabbit Reactivity: Human,Mouse,Rat

## BackGround:

AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.

## Product:

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA

## Molecular Weight:

Calculated MW: 56 kDa; Observed MW: 56 kDa

## Swiss-Prot:

Q9Y243

## Purification&Purity:

Affinity Purified

## Applications:

WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200 IP: 1/20 FC: 1/50-1/100

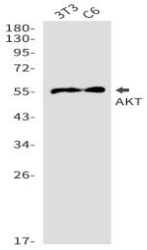
## Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

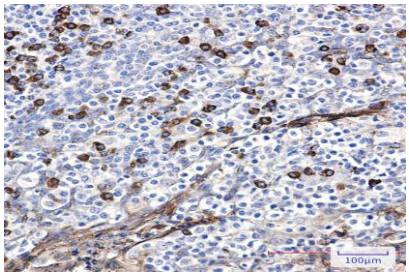
## Isotype:

IgG

## DATA:




Immunocytochemistry analysis of AKT in A549 using AKT antibody,and DAPI.




Western blot analysis of AKT in 3T3, C6 lysates using AKT antibody.
Western blot analysis of Akt in Jurkat lysates using Akt antibody
Immunohistochemistry analysis of paraffin-embedded Human tonsil using AKT1/2/3 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

## Note:

For research use only, not for use in diagnostic procedure.

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