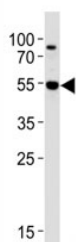


## AKT3 Antibody (F50045)

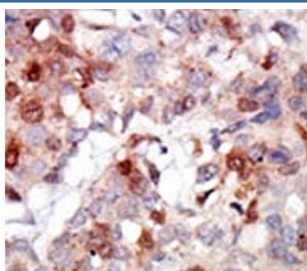
Catalog No.	Formulation	Size
F50045-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50045-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Primate, Rat
<b>Format</b>	Purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Purified
<b>UniProt</b>	Q9Y243
<b>Applications</b>	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
<b>Limitations</b>	This AKT3 antibody is available for research use only.



Western blot analysis of lysate from Jurkat cell line using AKT3 antibody at 1:1000.  
Predicted molecular weight: ~56kDa but can be observed from 60~65kDa.



IHC analysis of FFPE human breast carcinoma tissue stained with the AKT3 antibody

## Description

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. 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. [UniProt]

## Application Notes

Titration of the AKT3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 88-118 from the human protein was used as the immunogen for this AKT3 antibody.

## Storage

Aliquot the AKT3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.