

For Research Use Only

# Phospho-AKT (Thr450) Recombinant monoclonal antibody

Catalog Number:87220-1-RR



## Basic Information

Catalog Number:

87220-1-RR

Size:

100ul , Concentration: 1000 µg/ml by 207

Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_005163

GeneID (NCBI):

207

UNIPROT ID:

P31749

Full Name:

v-akt murine thymoma viral oncogene homolog 1

Calculated MW:

56 kDa

Observed MW:

60 kDa

Purification Method:

Protein A purification

CloneNo.:

252456B2

Recommended Dilutions:

WB: 1:1000-1:4000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : MCF-7 cells, λ phosphatase treated MCF-7 cells

## Background Information

The serine-threonine protein kinase AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. Phospho-AKT (Thr450) is recognized as the phosphorylation site on AKT (protein kinase B) at the threonine 450 residue. This site is referred to as the turn phosphorylation site and was previously thought to be a result of autophosphorylation, but more recent work has shown that its phosphorylation is controlled by TORC2 activity. This phosphorylation site is important in other AGC kinases, but the role in AKT signaling had not been determined. (PMID: 21670491)

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

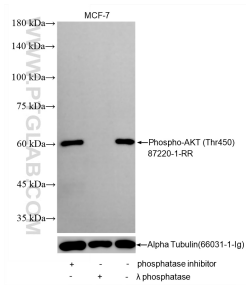
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## Selected Validation Data



Non-treated MCF-7 cells, phosphatase inhibitor treated MCF-7 cells and  $\lambda$  phosphatase treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 87220-1-RR (Phospho-AKT (Thr450) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.