

Nur für Forschungszwecke

# AKT1 (C-terminal) Rekombinanter Antikörper



Katalog-Nr.: 80457-1-RR

1 Publikationen

## Allgemeine Informationen

|  |   |  |
|--|---|--|
| <b>Katalog-Nr.:</b><br>80457-1-RR                        | <b>GenBank-Zugangsnummer:</b><br>NM_005163                                  | <b>Reinigungsmethode:</b><br>Protein-A-Reinigung                       |
| <b>Größe:</b><br>100ul, Konzentration: 1000 µg/ml von207 | <b>GeneID (NCBI):</b><br>v-akt murine thymoma viral oncogene homolog 1      | <b>CloneNo.:</b><br>4I5  |
| <b>Nanodrop;</b>   | <b>Vollständiger Name:</b><br>v-akt murine thymoma viral oncogene homolog 1 | <b>Empfohlene Verdünnungen:</b><br>WB 1:5000-1:50000<br>IHC 1:50-1:500 |
| <b>Wirt:</b><br>Kaninchen                                | <b>Beobachtete Masse:</b><br>56-62 kDa                                      |  |
| <b>Isotyp:</b><br>IgG                                    |   |  |

## Anwendungen

### Geprüfte Anwendungen:

IHC, WB, ELISA

### In Publikationen genannte Anwendungen:

WB

### Getestete Reaktivität:

Human, Maus

### Zitierte Arten:

Maus

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB:** HEK-293-Zellen, HEK-293T-Zellen, HeLa-Zellen, Mit Calyculin A behandelte HEK-293-Zellen, Mit Calyculin A behandelte HeLa-Zellen, mit Calyculin A behandelte HepG2-Zellen, mit Calyculin A behandelte NIH/3T3-Zellen, NIH/3T3-Zellen

**IHC:** humanes Mammakarzinomgewebe,

## Hintergrundinformationen

AKT is a serine/threonine kinase and it participates in the key role of the PI3K signaling pathway. Phosphatidylinositol-3 kinase (PI3K) is the key regulator of AKT activation. The recruitment of inactive AKT protein to PIP3-rich areas of the plasma membrane results in a conformational change that exposes the activation loop of AKT. AKT's activating kinase, phosphoinositide-dependent protein kinase (PDK1), is also recruited to PIP3 microdomains. PDK1 phosphorylates AKT on threonine 308 (Thr308) of the exposed activation loop, activating AKT and leading to a second phosphorylation of AKT at serine 473 (Ser473) by a kinase presumed to be mTORC2 that further potentiates kinase activity. Active AKT will phosphorylate various downstream protein targets that control cell growth and translational control and act to suppress apoptosis. (PMID: 31594388, PMID: 30808672). 80457-1-RR specifically recognizes AKT1.

## Bemerkenswerte Veröffentlichungen

| Verfasser       | Pubmed ID | Journal    | Anwendung |
|-----------------|-----------|------------|-----------|
| Quancheng Cheng | 35973363  | Redox Biol | WB        |

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

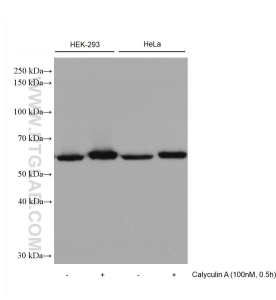
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

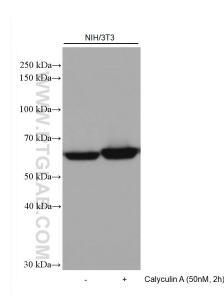
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

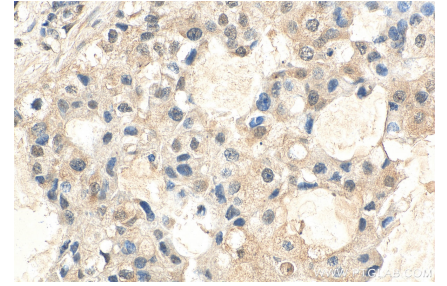
## Ausgewählte Validierungsdaten



Non-treated and Calyculin A treated cells were subjected to SDS PAGE followed by western blot with 80457-1-RR (AKT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80457-1-RR (AKT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80457-1-RR (AKT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).