

Nur für Forschungszwecke

# Phospho-AKT (Ser473) Rekombinanter Antikörper



Katalog-Nr.:CL488-80455

## Allgemeine Informationen

<b>Katalog-Nr.:</b> CL488-80455	<b>GenBank-Zugangsnummer:</b> NM_005163	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 100ul , Konzentration: 1000 µg/ml von207 Nanodrop;	<b>GeneID (NCBI):</b> v-akt murine thymoma viral oncogene homolog 1	<b>CloneNo.:</b> 2E17
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> v-akt murine thymoma viral oncogene homolog 1	<b>Anregungs-/Emissionsmaxima- Wellenlängen:</b> 493 nm / 522 nm
<b>Isotyp:</b> IgG	<b>Beobachtete Masse:</b> 58 kDa	

## Anwendungen

**Geprüfte Anwendungen:**  
FC (Intra)

**Getestete Reaktivität:**  
Human

## 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)

## Lagerung

**Lagerungsbedingungen:**  
Bei -20°C lagern. Vor Licht schützen. Nach dem Versand ein Jahr stabil.

**Lagerungspuffer:**  
BS mit 50% Glycerin, 0,05% Proclin300, 0,5% BSA, pH 7,3.

**Aliquotieren ist nicht notwendig bei -20°C Lagerung**

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

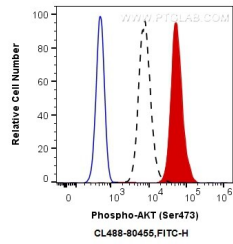
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## Ausgewählte Validierungsdaten



$1 \times 10^6$  HEK-293 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.13  $\mu$ g CoraLite® Plus 488 Anti-Human Phospho-AKT (Ser473) (CL488-80455, Clone:2E17), or 0.13  $\mu$ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 80% MeOH.