

CoraLite[®] Plus 647-conjugated Phospho-AKT (Ser473) Recombinant antibody

Catalog Number: CL647-80455

Basic Information

Catalog Number:

CL647-80455

Size:1000 μ g/ml**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**Observed MW:**

58 kDa

Purification Method:

Protein A purification

CloneNo.:

2E17

**Excitation/Emission maxima
wavelengths:**

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

Human

Background Information

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)

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

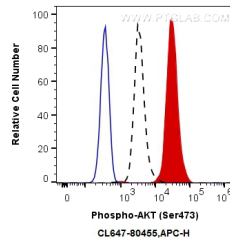
For technical support and original validation data for this product please contact:

T: 4006900926

E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



1×10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.13 μ g CoraLite® Plus 647 Anti-Human Phospho-AKT (Ser473) (CL647-80455, Clone:2E17), or 0.13 μ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 80% MeOH.