

## Product datasheet for **AP17878PU-N**

### **AKT1 (N-term) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	FC, IF, WB
<b>Recommended Dilution:</b>	ELISA: 1/1,000. Western blotting: 1/50 - 1/100. Immunofluorescence: 1/10-1/50. Flow Cytometry: 1/10-1/50.
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	KLH conjugated synthetic peptide selected from the N-terminal region of human AKT1
<b>Specificity:</b>	This antibody reacts to AKT1.
<b>Formulation:</b>	PBS with 0.09% (W/V) sodium azide State: Liquid purified Ig
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Saturated Ammonium Sulfate (SAS) precipitation
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	AKT serine/threonine kinase 1
<b>Database Link:</b>	<a href="#">Entrez Gene 207 Human P31749</a>



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**Background:**

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery.

**Synonyms:**

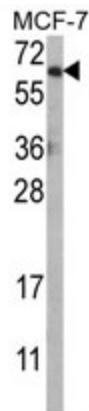
Akt-1, RAC-PK-alpha, Protein kinase B, C-AKT

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

**Protein Pathways:**

Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling pathway, VEGF signaling pathway

**Product images:**

Western blot analysis of AKT1 Antibody (N-term) in MCF-7 cell line lysates (35ug/lane). AKT1 (arrow) was detected using the purified Pab.