

# Product datasheet for AP20342PU-N

### **AKT1 Rabbit Polyclonal Antibody**

#### **Product data:**

#### OriGene Technologies, Inc.

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| Product Type:           | Primary Antibodies   |
|-------------------------|--|
| Applications:           | WB   |
| Recommended Dilution:   | Western blot: 1/500-1/1000.  |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Clonality:              | Polyclonal   |
| Specificity:            | This antibody detects endogenous levels of Akt protein.  |
| Formulation:            | Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2<br>State: Aff - Purified<br>State: Liquid purified Ig fraction |
| Concentration:          | 1.0 mg/ml  |
| Purification:           | Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                   |
| Stability:              | Shelf life: one year from despatch.  |
| Predicted Protein Size: | ~ 60 kDa   |
| Gene Name:              | AKT serine/threonine kinase 1  |
| Database Link:          | <u>Entrez Gene 11651 MouseEntrez Gene 24185 RatEntrez Gene 207 Human</u><br><u>P31749</u>  |

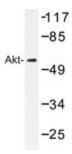


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## SCRIGENE AKT1 Rabbit Polyclonal Antibody – AP20342PU-N

| Background:       | AKT, also known as protein kinase B (PKB), is a 57 kDa serine/threonine protein kinase. There are three mammalian isoforms of Akt: AKT1 (PKB alpha), AKT2 (PKB beta) and AKT3 (PKB gamma) with AKT2 and AKT3 being approximately 82% identical with the AKT1 isoform. Each isoform has a pleckstrin homology (PH) domain, a kinase domain and a carboxy terminal regulatory domain. AKT was originally cloned from the retrovirus AKT8, and is a key regulator of many signal transduction pathways. Its tight control over cell proliferation and cell viability are manifold; overexpression or inappropriate activation of AKT has been seen in many types of cancer. AKT mediates many of the downstream events of phosphatidylinositol 3 kinase (a lipid kinase activated by growth factors, cytokines and insulin). |
|-------------------|---|
| 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<br>pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer,<br>Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-<br>mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling<br>pathway, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Neurotrophin<br>signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer,<br>Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell<br>lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling<br>pathway, VEGF signaling pathway                              |

**Product images:** 



Western blot analysis of Akt antibody (Cat.-No.: AP20342PU-N) in extracts from NIH/3T3 cells.

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