

Product datasheet for **TA354474**

AKT1 Rabbit Polyclonal Antibody

Product data:

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|-----------------------|---|
| Product Type: | Primary Antibodies |
| Recommended Dilution: | WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | A synthetic peptide containing the phosphorylated Ser473 motif of human AKT1. |
| Formulation: | This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer. |
| Purification: | The Rabbit IgG is purified by site-modified Epitope Affinity Purification. |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | AKT serine/threonine kinase 1 |
| Database Link: | NP_001014431 Entrez Gene 11651 Mouse Entrez Gene 24185 Rat Entrez Gene 207 Human P31749 |
| Background: | Akt also known as PKB (Protein kinase B) is a family of serine/threonine kinases that plays an important role in signal transduction. There are three known isoforms of Akt in mammalian cells [Akt1 (α), Akt2 (β) and Akt3 (?)]; Akt is activated by insulin and growth and survival factors. Akt1 is phosphorylated within the activation loop at threonine 308 and the C-terminus at serine 473 (S473). Additionally, Akt has been referred to as an oncogene because it has increased activity in a number of tumors. |
| Synonyms: | AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase |



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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