

Product datasheet for **TA302205**

AKT2 Rabbit Polyclonal Antibody

Product data:

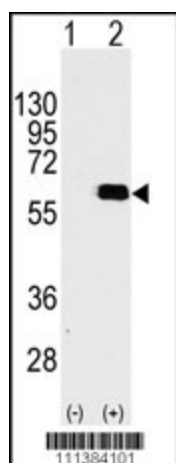
| | |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type: | Primary Antibodies |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | IF: 1:10~50, WB: 1:1000, IHC: 1:10~50 |
| Reactivity: | Human (Predicted: Mouse, Rat) |
| Host: | Rabbit |
| Isotype: | Ig |
| Clonality: | Polyclonal |
| Immunogen: | This AKT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 452-481 amino acids from human AKT2. |
| Formulation: | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Concentration: | lot specific |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 55769 Da |
| Gene Name: | AKT serine/threonine kinase 2 |
| Database Link: | NP_001617 Entrez Gene 11652 MouseEntrez Gene 25233 RatEntrez Gene 208 Human P31751 |
| Background: | AKT2 is a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. AKT2 has been shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression of AKT2 contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. AKT2 is a general protein kinase capable of phosphorylating several known proteins. |
| Synonyms: | HIHGHH; PKBB; PKBBETA; PRKBB; RAC-BETA |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase |



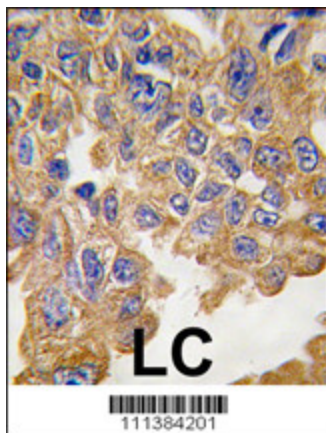
[View online »](#)

Protein Pathways:

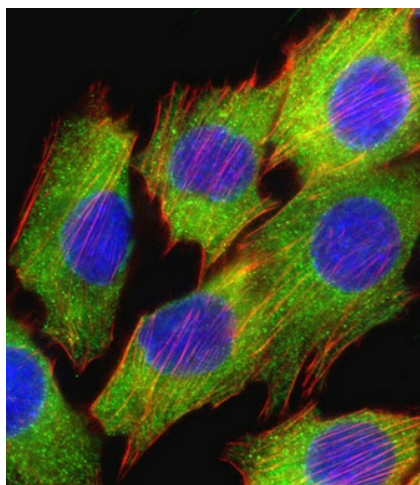
Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, 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 AKT2 (arrow) using rabbit polyclonal AKT2 Antibody (S474) (RB11384). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AKT2 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with AKT2 Antibody (S474), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



IF image of C2C12 cell stained with AKT2 Antibody (S474) (Cat#TA302205). C2C12 cells were incubated with AKT2 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml). Nuclei were counterstained with DAPI (blue). AKT2 immunoreactivity is localized to Cytoplasm significantly.