

# Product datasheet for AP06562PU-N

## **AKT1 Rabbit Polyclonal Antibody**

## **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 160-210 of Human PKA $lpha$ .
Specificity:	This antibody detects endogenous levels of PKACa protein. (region surrounding Val191)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified lg fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the 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. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 40, 42 kDa
Gene Name:	AKT serine/threonine kinase 1
Database Link:	<u>Entrez Gene 207 Human</u> <u>P31749</u>



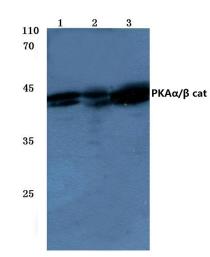
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#### **GRIGENE** AKT1 Rabbit Polyclonal Antibody – AP06562PU-N

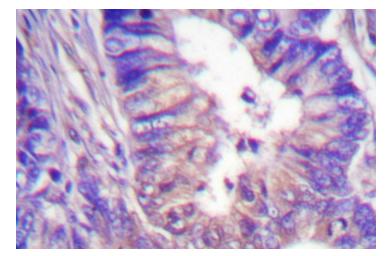
Background:The second messenger cyclic AMP (cAMP) mediates diverse cellular responses to external<br/>signals such as proliferation, ion transport, regulation of metabolism and gene transcription<br/>by activation of the cAMP-dependent protein kinase (cAPK or PKA). Activation of PKA occurs<br/>when cAMP binds to the two regulatory subunits of the tetrameric PKA holoenzyme resulting<br/>in release of active catalytic subunits. Three catalytic (C) subunits have been identified,<br/>designated Ca, Cβ and Cγ, that each represent specific gene products. Ca and Cβ are closely<br/>related (93% amino acid sequence similarity), whereas Cy displays 83% and 79% similarity to<br/>Ca and Cβ, respectively.

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

### **Product images:**



Western blot (WB) analysis of PKAa/β cat antibody at 1/500 dilution Lane 1:HEK293T whole cell lysate Lane 2:Mouse liver tissue lysate Lane 3:Rat liver tissue lysate



Immunohistochemistry (IHC) analyzes of PKACa antibody in paraffin-embedded human colon carcinoma

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