

Product datasheet for AP06562PU-N

AKT1 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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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>



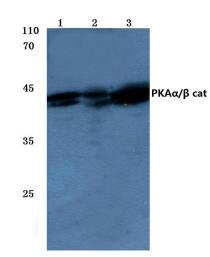
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GRIGENE AKT1 Rabbit Polyclonal Antibody – AP06562PU-N

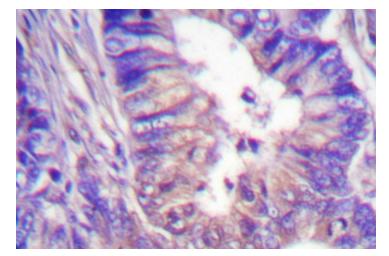
Background:The second messenger cyclic AMP (cAMP) mediates diverse cellular responses to external
signals such as proliferation, ion transport, regulation of metabolism and gene transcription
by activation of the cAMP-dependent protein kinase (cAPK or PKA). Activation of PKA occurs
when cAMP binds to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