

Product datasheet for AP13965PU-N

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OriGene Technologies, Inc.

AMPK alpha 1 (PRKAA1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: ELISA 1:1,000.

Western blot 1:50 - 1:100.

Immunohistochemistry 1:10 - 1:50.

Reactivity: Human
Host: Rabbit
Isotype: Ig

Clonality: Polyclonal

Immunogen: This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide

corresponding to amino acid residues surrounding S487 of human PRKAA1.

Specificity: This antibody detects AMPK alpha (PRKAA1).

Formulation: PBS with 0.09% (W/V) sodium azide

State: Aff - Purified State: Liquid Ig fraction

Concentration: lot specific

Purification: Protein A column, followed by peptide affinity purification.

Conjugation: Unconjugated

Storage: Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: protein kinase AMP-activated catalytic subunit alpha 1

Database Link: Entrez Gene 5562 Human

Q13131



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Background: PRKAA1 belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-

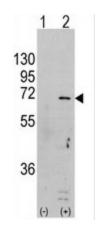
AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by

switching off ATP-consuming biosynthetic pathways.

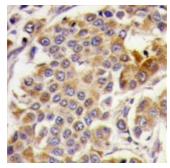
Synonyms: AMPK1, AMPK alpha-1 chain

Note: Molecular weight: 63878 Da

Product images:



Western blot analysis of PRKAA1 (arrow) using rabbit polyclonal PRKAA1 Antibody. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKAA1 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with PRKAA1, 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.