

Product datasheet for TA350851

AMPK alpha 1 (PRKAA1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: WB: 200-1000

WB positive control: NIH/3T3 cells

IHC: 100-300

Positive control: Human ovarian cancer Predicted cell location: Cytoplasm

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Synthetic peptide of human PRKAA1

Formulation: pH7.4 PBS, 0.05% NaN3, 40% Glyceroln

Concentration: lot specific

Purification: Antigen affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 64 kDa

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

Database Link: NP 996790

Entrez Gene 65248 RatEntrez Gene 105787 MouseEntrez Gene 5562 Human

Q13131



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Background: The protein encoded by this gene 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. Alternatively spliced

transcript variants encoding distinct isoforms have been observed.

Synonyms: AMPK; AMPKa1

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling

pathway, mTOR signaling pathway, Regulation of autophagy

Product images:



Gel: 6%SDS-PAGE Lysate: 40 µg Lane: NIH/3T3 cells

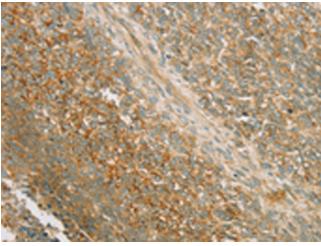
Primary antibody: TA350851 (PRKAA1 Antibody)

at dilution 1/200

Secondary antibody: Goat anti rabbit IgG at

1/8000 dilution

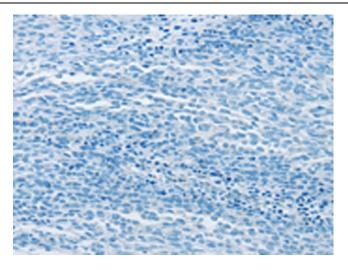
Exposure time: 1 minute



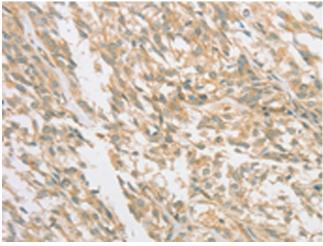
Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA350851 (PRKAA1 Antibody) at dilution 1/80 (Original

magnification: ×200)

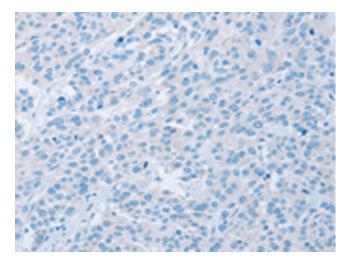




Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA350851 (PRKAA1 Antibody) at dilution 1/80, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA350851 (PRKAA1 Antibody) at dilution 1/80 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA350851 (PRKAA1 Antibody) at dilution 1/80, treated with synthetic peptide. (Original magnification: ×200)