

Product Information

Size:

50ug

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC, IF

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:2000-1:5000,
IHC:1:20-1:200, IF:1:50-1:200

Protein Background:

Catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators.

Gene ID:

PRKAA2

Uniprot

P54646

Synonyms:

5'-AMP-activated protein kinase catalytic subunit alpha-2 (AMPK subunit alpha-2) (EC 2.7.11.1) (Acetyl-CoA carboxylase kinase) (ACACA kinase) (EC 2.7.11.27) (Hydroxymethylglutaryl-CoA reductase kinase) (HMGCR kinase) (EC 2.7.11.31), PRKAA2, AMPK AMPK2

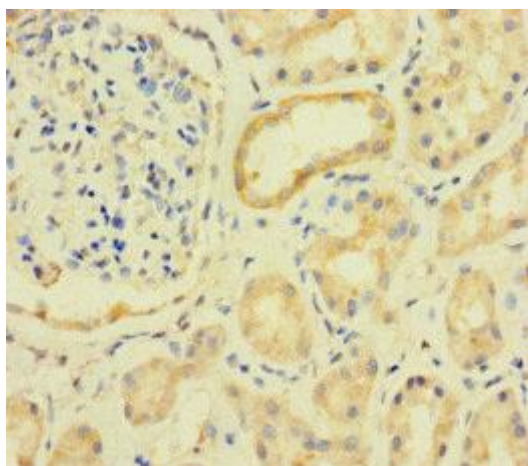
Immunogen:

Recombinant Human 5'-AMP-activated protein kinase catalytic subunit alpha-2 protein (350-400AA).

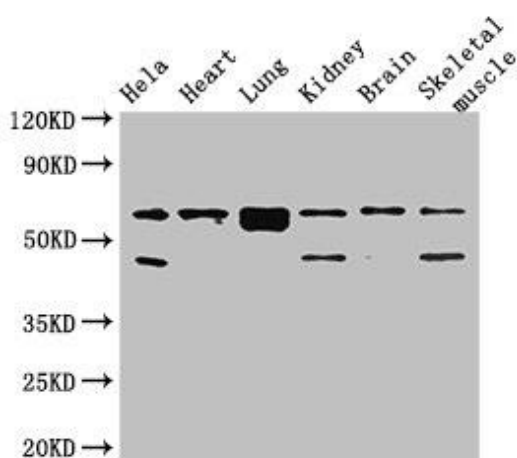
Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

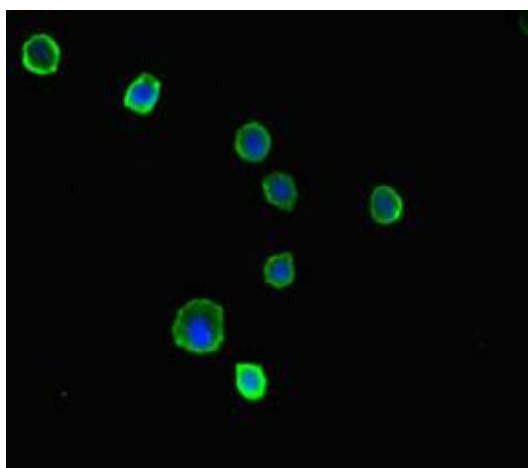
Product Images



Immunohistochemistry of paraffin-embedded human kidney tissue using PACO46758 at dilution of 1:100.



Western Blot. Positive WB detected in: HeLa whole cell lysate, Mouse heart tissue, Mouse lung tissue, Mouse kidney tissue, Mouse brain tissue, Mouse skeletal muscle tissue. All lanes: PRKAA2 antibody at 2.7µg/ml. Secondary. Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 63 kDa. Observed band size: 63, 48 kDa.



Immunofluorescent analysis of MCF-7 cells using PACO46758 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).