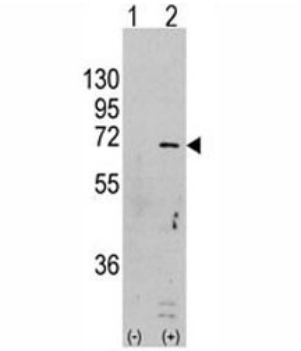
AMPK Antibody / PRKAA1 (F40150)

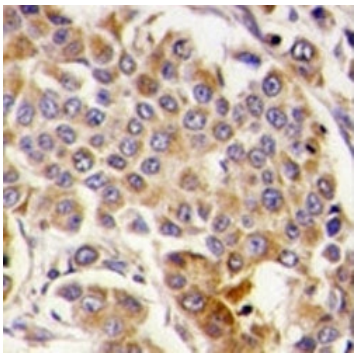
Catalog No.	Formulation	Size
F40150-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40150-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

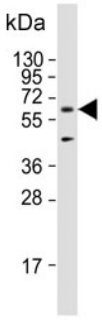
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q13131
Applications	Western blot : 1:1000 IHC (Paraffin) : 1:10-1:50
Limitations	This AMPK antibody is available for research use only.



Western blot analysis of AMPK antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKAA1 gene (2).



IHC analysis of FFPE human breast carcinoma tissue stained with AMPK antibody



Western blot testing of human K562 cell lysate with AMPK antibody. Predicted molecular weight ~64 kDa.

Description

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.

Application Notes

Titration of the AMPK antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 474-502 from human PRKAA1 was used as the immunogen for this AMPK antibody.

Storage

Aliquot the AMPK antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering:Phone:858.663.9055 | Fax:1.267.821.0800 | Email:info@nsjbio.com