

Basic Information

Product Name	Anti-Phospho AMPK Alpha 1/PRKAA1 (S496) Antibody	
Gene Name	PRKAA1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, ICC/IF, IP	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
Immunogen	A synthesized peptide derived from human AMPK alpha 1	
concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	64KD	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:20-100
	Immunoprecipitation:	1:20

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

5'-AMP-activated protein kinase catalytic subunit alpha-1 is an enzyme that in humans is encoded by the PRKAA1 gene. 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.

Selected Validation Data

Product datasheet

Anti-Phospho AMPK Alpha 1/PRKAA1 (S496) Antibody

Catalog Number: **BM4718**

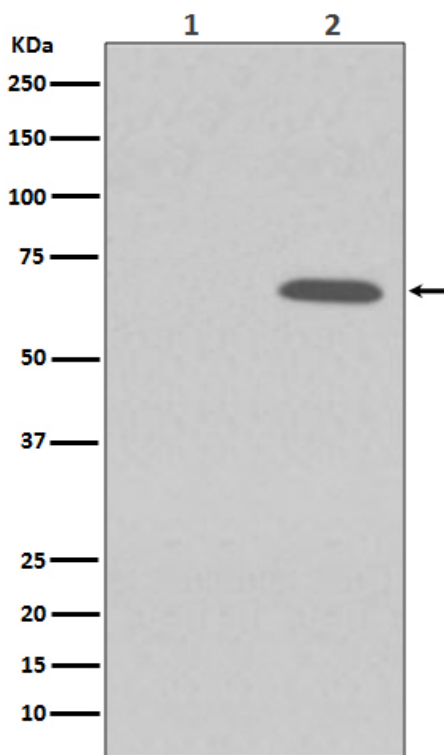
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Western blot analysis of Phospho-AMPK alpha 1 (S496) expression in (1) 293T cell lysate treated with LP; (2) 293T cell lysate.