

Basic Information

Product Name	Anti-AMPK Alpha 1/PRKAA1 (Phospho-T183)/AMPK Alpha 2/PRKAA2 (Phospho-T172) Antibody (Clone#31P05)
Gene Name	PRKAA1/PRKAA2
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Thr183 of human AMPK alpha 1.
Concentration	500 ug/ml
Purification	Protein A affinity purified.
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200

Storage

12 months from date of receipt, -20°C as supplied.

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.

Product datasheet

Anti-AMPK Alpha 1/PRKAA1 (Phospho-T183)/AMPK Alpha 2/PRKAA2 (Phospho-T172) Antibody (Clone#31P05)

Catalog Number: M00994-3

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antibody and ELISA experts

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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com **Phone:** 027-67845390/1/2 **Email:** boster@boster.com

Selected Validation Data