

Rabbit anti-Human AMPKalpha1-T183+AMPKalpha2-T172 Monoclonal Antibody | anti-PRKAA1/PRKAA2 antibody

Phospho-AMPKalpha1-T183+AMPKalpha2-T172 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283160	Rabbit	Human	ELISA, Western Blot

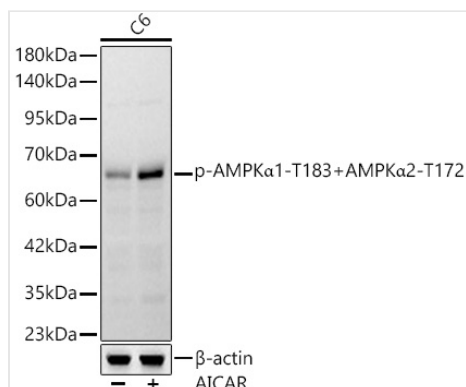
PRODUCT SYNONYMS

AMPKalpha1-T183+AMPKalpha2-T172; Monoclonal Antibody; Phospho-AMPKalpha1-T183+AMPKalpha2-T172 Rabbit mAb; AMPKa1/AMPKa2; Phospho-AMPKalpha1-T183+AMPKalpha2-T172; anti-PRKAA1/PRKAA2 antibody

PRODUCT SPECIFICATIONS

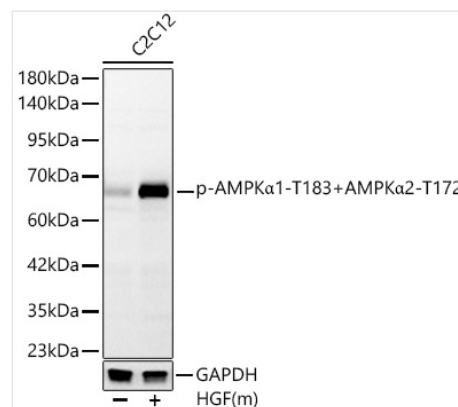
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	LRTSC
Applicable Applications for anti-PRKAA1/PRKAA2 antibody	ELISA, WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic phosphorylated peptide around T183/T172 of human PRKAA1/PRKAA2 (NP_006242.5/NP_006243.2).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of lysates from C6 cells, using Phospho-AMPKα1-T183/AMPKα2-T172 Rabbit mAb (AAA283160) at 1:1000 dilution. C6 cells were treated by AICAR (0.5 mM) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



WB (Western Blot)

Western blot analysis of lysates from C2C12 cells, using Phospho-AMPKα1-T183/AMPKα2-T172 Rabbit mAb (AAA283160) at 1:1000 dilution. C2C12 cells were treated by mHGF (50ng/uL). Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAA1/PRKAA2 antibody	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.
Product Categories/Family for anti-PRKAA1/PRKAA2 antibody	Protein phosphorylation; Phosphorylated Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	27469582
NCBI GeneID	5562/5563
UniProt Accession #	Q13131; P54646
Molecular Weight	Calculated MW: 64kDa/65kDa/62kDa Observed MW: 62kDa
UniProt Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-1
UniProt Gene Name	PRKAA1
UniProt Synonym Gene Names	AMPK1; AMPK subunit alpha-1; ACACA kinase; HMGCR kinase
UniProt Entry Name	AAPK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ampkalpha1-t183ampkalpha2-t172-antibody-western-blot-elisa/283160>