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Anti-AMPKα1/2 (phospho-Thr183/Thr172) Rabbit mAb [11C49]

Catalog No.: A52009

Basic Information

Catalog No. (Cat.No.)	A52009
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Synonyms	AMPKα1/2 (phospho-Thr183/Thr172),p-AMPK-α1/2(Thr183/172),p-AMPKα(T183/T172),Phospho-AMPKα

Product Information

Target	AMPKα1/2 (phospho-Thr183/Thr172)
Molecular Weight(Calculated)	62 kDa,64 kDa
Molecular Weight(Observed)	62 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	11C49
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	AMPKα1/2 (phospho-Thr183/Thr172)
Gene Name	*PRKAA1 / PRKAA2*
Domain	NA
Background	Phospho-AMPKα (Thr183/Thr172) corresponds to the conserved activating phosphorylation sites of AMPKα1 and AMPKα2 subunits, which are the hallmark modifications for full AMPK activation. Thr172 on AMPKα2 and Thr183 on AMPKα1 are located in the kinase activation loop, and their phosphorylation is a prerequisite for initiating AMPK catalytic activity and downstream signaling. As a central energy sensor, activated AMPK suppresses anabolic metabolism, promotes catabolic processes, and regulates autophagy, oxidative stress, inflammation and cell growth. Deficient AMPK phosphorylation is a typical pathological feature of metabolic syndrome, aging-related diseases and malignant tumors.