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Anti-AMPK Alpha 1/2 (D168) PRKAA1 Antibody

Catalog Number: A00994-4

About PRKAA1

4E-BP1 encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation.

Gingras AC, et al. (1998) Genes Dev 12(4): 502-513.
Brugarolas J, et al. (2004) Genes Dev 18(23): 2893-2904.
Kumar V, et al. (2000) EMBO J 19(5): 1087-1097.
Moody CA, et al. (2005) J Virol 79(9): 5499-5506.
Burnett PE, et al. (1998) Proc Natl Acad Sci U S A 95(4): 1432-1437.

Overview

Product Name	Anti-AMPK Alpha 1/2 (D168) PRKAA1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-AMPK Alpha 1/2 (D168) PRKAA1 Antibody catalog # A00994-4. Tested in WB,IHC applications. This antibody reacts with Human,Mouse,Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13131/P54646

Technical Details

Immunogen	Synthesized peptide derived from human LRP6 protein.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

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Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:500-1:1000 IHC: 1:50-1:200

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Anti-AMPK Alpha 1/2 (D168) PRKAA1 Antibody (A00994-4) Images

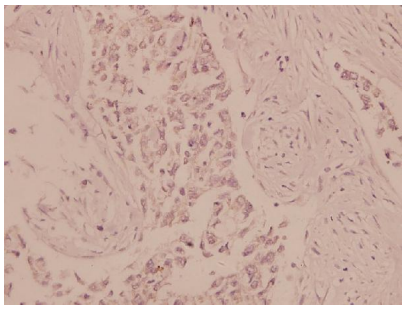

Figure 2. Immunohistochemistry validation of PRKAA1 using Anti-AMPK Alpha 1/2 (D168) PRKAA1 Antibody (A00994-4).

Immunohistochemistry (IHC) analyzes of AMPKalpha1/2 (D168) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.
For more protocol information of IHC

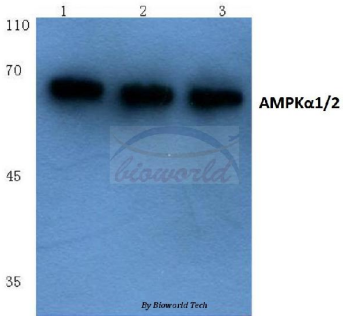

Figure 1. Western blotting validation for Anti-AMPK Alpha 1/2 (D168) PRKAA1 Antibody A00994-4

Western blot (WB) analysis of AMPKalpha1/2 (D168) polyclonal antibody at 1:500 dilution
Lane1:Hela cell lysate
Lane2:Mouse brain tissue lysate
Lane3:Rat brain tissue lysate
Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

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