

Anti-Coilin Antibody

Catalog Number: A02784

About COIL

AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Gamma non-catalytic subunit mediates binding to AMP, ADP and ATP, leading to activate or inhibit AMPK: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enzyme inactive.

Cheung P.C.F., Biochem. J. 346:659-669(2000).

Lang T.M., Genomics 70:258-263(2000).

Ota T., Nat. Genet. 36:40-45(2004).

Overview

Product Name	Anti-Coilin Antibody
Reactive Species	Human
Description	Boster Bio Anti-Coilin Antibody catalog # A02784. Tested in WB,Flow Cytometry applications. This antibody reacts with Human.
Application	Flow Cytometry, 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	P38432

Technical Details

Immunogen	Synthesized peptide derived from human RXFP1 protein.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Isotype	IgG

Form	Liquid
Concentration	1 mg/ml
Purification	ProA affinity purified
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:500-1:2,000</p> <p>FC: 1:50-1:100</p>

Anti-Coilin Antibody (A02784) Images

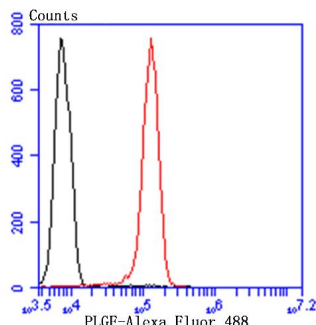


Figure 2. Flow Cytometry validation of COIL using Anti-Coilin Antibody (A02784).

Flow cytometric analysis of Jurkat cells with Coilin antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

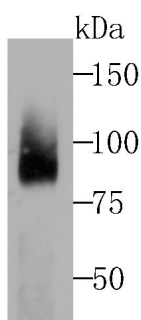


Figure 1. Western blotting validation for Anti-Coilin Antibody A02784

Western blot analysis of Coilin on rat kidney tissue lysates using anti-Coilin at 1/500 dilution. Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

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