

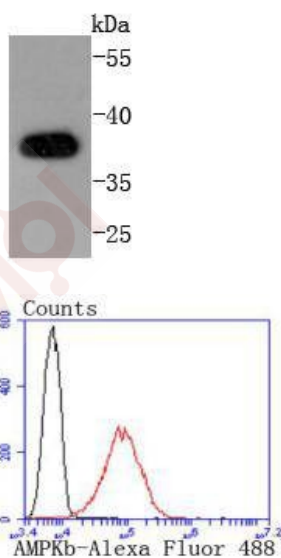
Anti-AMPK β 1 Antibody (7G100)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 38 kDa.
Clone:	7G100
Purification:	ProA affinity purified

Applications

1. Western blot analysis of AMPK beta 1 on A431 cells lysates using anti-AMPK beta 1 antibody at 1/1,000 dilution.
2. Flow cytometric analysis of A431 cells with AMPK beta 1 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
- Verified Activity:



Application:	FCM,WB
Recommended	WB: 1:1000-2000; FCM: 1:50-100

Properties

- Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
- Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q9Y478
Synonyms:	5'-AMP-activated protein kinase beta-1 subunit;AMPKbeta1;AMPK-BETA-1;AMP-activated protein kinase beta subunit;AMPKb;HAMPKb;AMPK subunit beta-1;5''-AMP-activated protein kinase subunit beta-1;PRKAB1;AMPK beta1;AMP-activated, noncatalytic, beta-1; 1300015D22Rik;AMPK b1;AMPKb1;protein kinase, AMP-activated, beta 1 non-catalytic subunit; protein kinase, AMP-activated, noncatalytic, beta-1;AAKB1_HUMAN;AMPK;AMPKβ1;AU021155; E430008F22;MGC17785;AMPK beta 1 chain;AMP-ACTIVATED PROTEIN KINASE, NONCATALYTIC, BETA-1;Protein kinase AMP activated non catalytic subunit beta 1

Research Background

AMPK (for 5'-AMP-activated protein kinase) is a heterotrimeric complex comprising a catalytic α subunit and regulatory β and γ subunits. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming bio-synthetic pathways. AMPK is activated by high AMP and low ATP through a mechanism involving allosteric regulation, promotion of phosphorylation by an upstream protein kinase known as AMPK kinase, and inhibition of dephosphorylation. Activated AMPK can phosphorylate and regulate in vivo hydroxy-methylglutaryl-CoA reductase and acetyl-CoA carboxylase, which are key regulatory enzymes of sterol synthesis and fatty acid synthesis, respectively. The human AMPK α 1 and AMPK α 2 genes encode 548 amino acid and 552 amino acid proteins, respectively. Human AMPK β 1 encodes a 271 amino acid protein and human AMPK β 2 encodes a 272 amino acid protein. The human AMPK γ 1 gene encodes a 331 amino acid protein. Human AMPK γ 2 and AMPK γ 3, which are 569 and 492 amino acid proteins, respectively, contain unique N-terminal domains and may participate directly in the binding of AMP within the AMPK complex.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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