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35-1530: Polyclonal Antibody to AMPK Alpha1/AMPK Alpha2 (Ab-174/172)

Clonality :	Polyclonal
Application :	WB,IHC,IF
Reactivity :	Human,Mouse,Rat
Gene :	PRKAA1
Gene ID :	5562
Uniprot ID :	Q13131
Format :	Purified
Alternative Name :	AMPK,AMPKa1
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa. 172~176/170~174 (L-R-T-S-C) derived from Human AMPKa1/AMPKa2.

Description

Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 63kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

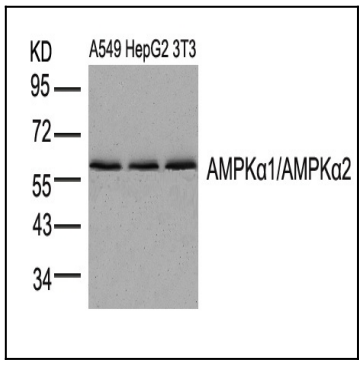

Figure 1: Western blot analysis of extracts from A549, HepG2 and 3T3 cells using AMPKa1/AMPKa2(Ab-174/172) Antibody 35-1530 .

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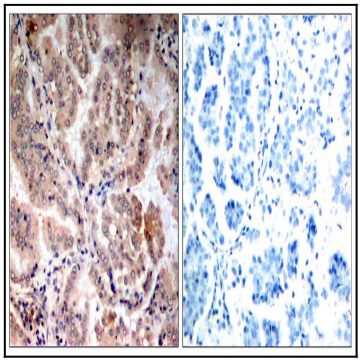

Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPKa1/AMPKa2(Ab-174/172) Antibody 35-1530 (left) or the same antibody preincubated with blocking peptide(right).

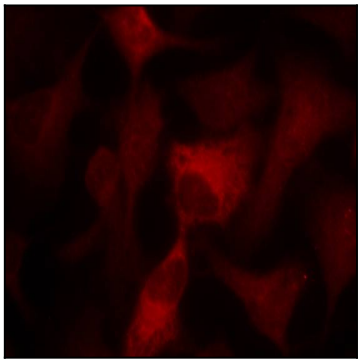

Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using AMPKa1/AMPKa2(Ab-174/172) Antibody 35-1530 .