

## 35-1478: Polyclonal Antibody to AMPK Alpha1 (Ab-487)Antibody

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	PRKAA1
<b>Gene ID :</b>	5562
<b>Uniprot ID :</b>	Q13131/P54646
<b>Format :</b>	Purified
<b>Alternative Name :</b>	AAPK1, AMPK alpha-1 chain, AMPK-alpha1, HMG-CoA reductase kinase, PRKAA1
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	Peptide sequence around aa.485~489 (S-G-S-V-S) derived from Human AMPKa1.

### 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

<b>Amount :</b>	50 µl / 100 µl
<b>Content :</b>	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Storage condition :</b>	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

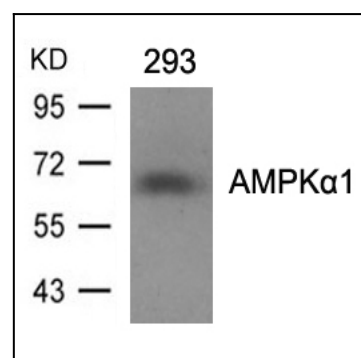


Figure 1: Western blot analysis of extracts from 293 cells using AMPKα1 (Ab-487)Antibody 35-1478 .

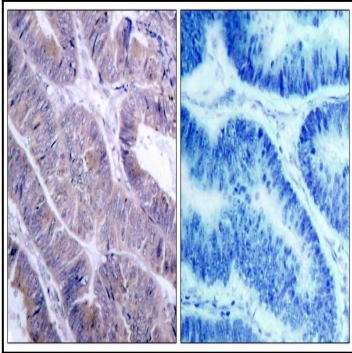


Figure 2: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using AMPK $\alpha$ 1 (Ab-487)Antibody 35-1478 (left) or the same antibody preincubated with blocking peptide(right).