

**bs-41337R****[ Primary Antibody ]****AMPK alpha-1 Rabbit pAb****BioSS**  
ANTIBODIES

www.bioss.com.cn

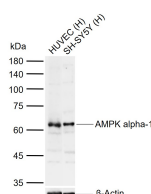
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>ELISA</b> (1:5000-10000)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Human (predicted: Mouse, Rat)
<b>GeneID:</b> 5562		<b>Predicted MW.:</b> 64 kDa
<b>Target:</b> AMPK alpha-1		<b>Subcellular Location:</b> Cytoplasm ,Nucleus
<b>Immunogen:</b> Recombinant human AMPK alpha-1 protein : 1-207/559.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]		

**— VALIDATION IMAGES —**

Sample: Lane 1: Human HUVEC cell lysates Lane  
2: Human SH-SY5Y cell lysates Primary: Anti-  
AMPK alpha-1 (bs-41337R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 64 kDa  
Observed band size: 64 kDa

**— SELECTED CITATIONS —**

- **[IF=3.8]** Yixin Sun. et al. Afzelin protects against doxorubicin-induced cardiotoxicity by promoting the AMPK $\alpha$ /SIRT1 signaling pathway. TOXICOL APPL PHARM. 2023 Sep;:116687 WB ;Mouse,Rat. 37703929