

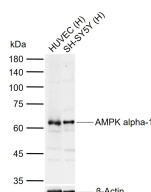
bs-41337R**[Primary Antibody]****AMPK alpha-1 Rabbit pAb****BioSS**
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— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GenelD:** 5562**Target:** AMPK alpha-1**Immunogen:** Recombinant human AMPK alpha-1 protein : 1-207/559.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 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.**Background:** 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]**Applications:** **WB** (1:500-2000)**ELISA** (1:5000-10000)**Reactivity:** Human (predicted: Mouse, Rat)**Predicted MW:** 64 kDa**Subcellular Location:** Cytoplasm ,Nucleus**— 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 AMPKα/SIRT1 signaling pathway. TOXICOL APPL PHARM. 2023 Sep;;116687 WB ;Mouse,Rat. 37703929