

## AMPK beta1 elisa kit

AMPK beta1 Colorimetric Cell-Based ELISA Kit

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|-------------------------------|----------------------------------------|
| CATALOG #<br><b>AAA315519</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> |
|-------------------------------|----------------------------------------|

### PRODUCT SYNONYMS

AMPK beta1; AMPK beta1 Colorimetric Cell-Based ELISA Kit; 5'-AMP-activated protein kinase subunit beta-1; AMPK subunit beta-1; AMPKb; PRKAB1; AMPK; AMPK beta1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human, Mouse, Rat                                                                                                                                                                                                                                        |
| Specificity             | The Anti-AMPK beta1 Antibody is a rabbit polyclonal antibody. It was tested on Western Blots for specificity. The data in Figure 2 shows that a single protein band was detected. This protein band can be blocked by the synthesized immunogen peptide. |
| Form/Format             | One 96-Well Plate                                                                                                                                                                                                                                        |
| Sequence Length         | 270                                                                                                                                                                                                                                                      |
| Preparation and Storage | Store at 4 degree C.                                                                                                                                                                                                                                     |

### ADDITIONAL INFORMATION

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| Related Product Information for AMPK beta1 elisa kit | Background/Introduction: The Colorimetric Cell-Based ELISA Kit allows for the detection of various target proteins and the effects that certain stimulation conditions have on target protein expression in different cell lines. Qualitative determination of target protein concentration is achieved by an indirect ELISA format. In essence, the target protein is captured by target-specific primary (1 degree) antibodies while the HRP-conjugated secondary (2 degree) antibodies bind the Fc region of the 1 degree antibody. Through this binding, the HRP enzyme conjugated to the 2 degree antibody can catalyze a colorimetric reaction upon substrate addition. Due to the qualitative nature of the Cell-Based ELISA, multiple normalization methods are described: 1) a monoclonal antibody specific for human GAPDH is included to serve as an internal positive control in normalizing the target absorbance values. 2) Following the colorimetric measurement of HRP activity via substrate addition, the Crystal Violet whole-cell staining method is used to determine cell density. After staining, the results can be analyzed by normalizing the absorbance values to cell amounts, by which the plating difference can be adjusted. 3) If a phosphorylated target is being detected, an antibody against the non-phosphorylated counterpart will be provided for normalization purposes. The absorbance values obtained for the non- phosphorylated target can be used to normalize the absorbance values for the phosphorylated target. |
| Product Categories/Family for AMPK beta1 elisa kit   | Cell Based ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### NCBI AND UNIPROT INFORMATION

|                           |                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                 | <a href="#">19923359</a>                                                                                                   |
| NCBI GeneID               | <a href="#">5564</a>                                                                                                       |
| NCBI Accession #          | <a href="#">NP_006244.2</a>                                                                                                |
| NCBI GenBank Nucleotide # | <a href="#">NM_006253.4</a>                                                                                                |
| UniProt Accession #       | <a href="#">Q9Y478</a> ; <a href="#">Q9UBV0</a> ; <a href="#">Q9UE20</a> ; <a href="#">Q9UEX2</a> ; <a href="#">Q9Y6V8</a> |
| Molecular Weight          | 30382                                                                                                                      |

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| NCBI Official Full Name          | 5'-AMP-activated protein kinase subunit beta-1            |
| NCBI Official Synonym Full Names | protein kinase AMP-activated non-catalytic subunit beta 1 |
| NCBI Official Symbol             | PRKAB1                                                    |
| NCBI Official Synonym Symbols    | AMPK; HAMPKb                                              |
| NCBI Protein Information         | 5'-AMP-activated protein kinase subunit beta-1            |
| UniProt Protein Name             | 5'-AMP-activated protein kinase subunit beta-1            |
| UniProt Gene Name                | <b>PRKAB1</b>                                             |
| UniProt Synonym Gene Names       | AMPK; AMPK subunit beta-1; AMPKb                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-mouse-rat-elisa-kits/ampk-beta1/315519>