

## Human Protein Kinase, AMP Activated Beta 2 (PRKAb2) ELISA Kit | PRKAb2 elisa kit

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CATALOG #  
**AAA189852**

REACTIVITY  
**Human**

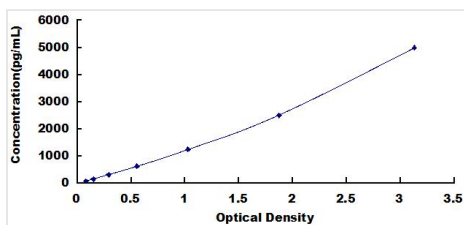
### PRODUCT SYNONYMS

Protein Kinase; AMP Activated Beta 2 (PRKAb2); Human Protein Kinase; AMP Activated Beta 2 (PRKAb2) ELISA Kit; 5'-AMP-activated protein kinase subunit beta-2; PRKAb2/Protein Kinase; AMP Activated Beta 2; PRKAb2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of PRKAb2. No significant cross-reactivity or interference between PRKAb2 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Samples                 | Human tissue homogenates, cell lysates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Detection Range         | 78-5,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sensitivity             | < 32pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PRKAb2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PRKAb2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                        |
| Preparation and Storage | Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)<br>Shelf Life: 8 months<br>The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PRKAb2 elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PRKAb2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PRKAb2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PRKAb2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of PRKAb2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PRKAb2 in human tissue homogenates, cell lysates and other biological fluids.</p> |
| Product Categories/Family for PRKAb2 elisa kit   | Enzyme & Kinase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 3912957                                                                                                                                                                                                         |
| NCBI GeneID                      | 5565                                                                                                                                                                                                            |
| UniProt Accession #              | O43741; Q5VXY0; A8K9V5; B4DH06                                                                                                                                                                                  |
| Molecular Weight                 | 272                                                                                                                                                                                                             |
| NCBI Official Full Name          | 5'-AMP-activated protein kinase subunit beta-2                                                                                                                                                                  |
| NCBI Official Synonym Full Names | protein kinase, AMP-activated, beta 2 non-catalytic subunit                                                                                                                                                     |
| NCBI Official Symbol             | PRKAB2                                                                                                                                                                                                          |
| NCBI Protein Information         | 5'-AMP-activated protein kinase subunit beta-2; AMPK beta 2; AMPK beta-2 chain; AMPK subunit beta-2; 5'-AMP-activated protein kinase, beta-2 subunit; AMP-activated protein kinase beta 2 non-catalytic subunit |
| UniProt Protein Name             | 5'-AMP-activated protein kinase subunit beta-2                                                                                                                                                                  |
| UniProt Gene Name                | PRKAB2                                                                                                                                                                                                          |
| UniProt Synonym Gene Names       | AMPK subunit beta-2                                                                                                                                                                                             |
| UniProt Entry Name               | AAKB2_HUMAN                                                                                                                                                                                                     |

**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-elisa-kits/protein-kinase-amp-activated-beta-2-prkab2/189852>