

Product Datasheet

AMPK beta 1/PRKAB1 Rabbit Polyclonal Antibody (orb316601)

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| Catalog Number | orb316601 |
| Category | Antibodies |
| Description | Anti-AMPK beta 1/PRKAB1 Antibody. Tested in IF, ICC, WB applications. This antibody reacts with Human. |
| Target | 5'-AMP-activated protein kinase subunit beta-1 |
| Clonality | Polyclonal |
| Species/Host | Rabbit |
| Isotype | Rabbit IgG |
| Conjugation | Unconjugated |
| Reactivity | Human |
| Form/Appearance | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |
| Buffer/Preservatives | Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Reconstitution | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |
| Purification | Immunogen affinity purified. |

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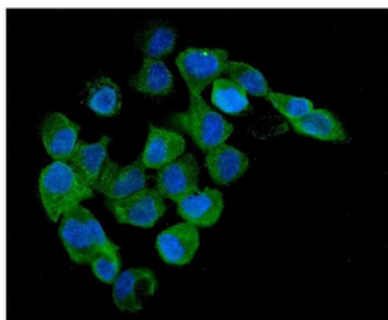
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| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human AMPK beta 1, different from the related mouse sequence by one amino acid, and from the related rat sequence by three amino acids. |
| UniProt ID | Q9Y478 |
| MW | 38 kDa |
| Tested applications | ICC, IF, WB |
| Dilution range | Western blot, 0.1-0.5µg/ml, Human Immunocytochemistry/Immunofluorescence, 2µg/ml, Human |
| Specificity | No cross reactivity with other proteins. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Antibody Type | Primary Antibody |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| Expiration Date | 12 months from date of receipt. |



IF analysis of AMPK beta 1 using anti-AMPK beta 1 antibody. AMPK beta 1 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2 µg/mL rabbit anti-AMPK beta 1 Antibody overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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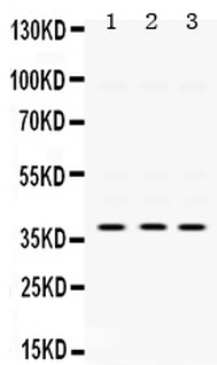
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Western blot analysis of AMPK beta 1 using anti-AMPK beta 1 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 40 ug of sample under reducing conditions. Lane 1: JURKAT Whole Cell Lysate, Lane 2: PANC Whole Cell Lysate, Lane 3: K562 Whole Cell Lysate. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AMPK beta 1 antigen affinity purified polyclonal antibody at 0.5 $\mu\text{g}/\text{mL}$ overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AMPK beta 1 at approximately 38 kDa. The expected band size for AMPK beta 1 is at 30 kDa.

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