

# AMPK alpha2 Polyclonal Antibody

Catalog Number:D-AB-10161L



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

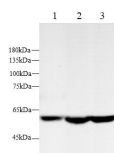
## Description

|                     |   |
|---------------------|---|
| <b>Reactivity</b>   | Human,Mouse,Rat                                   |
| <b>Immunogen</b>    | Recombinant Rat Ampk2 protein expressed by E.coli |
| <b>Host</b>         | Rabbit  |
| <b>Isotype</b>      | IgG   |
| <b>Purification</b> | Antigen Affinity Purification                     |
| <b>Conjugation</b>  | Unconjugated                                      |
| <b>Formulation</b>  | PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

## Applications Recommended Dilution

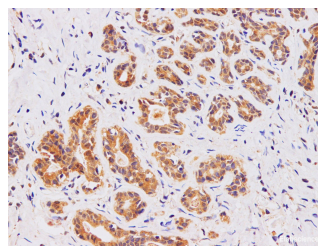
|            |              |
|------------|--------------|
| <b>WB</b>  | 1:500-1:1000 |
| <b>IHC</b> | 1:100-1:200  |
| <b>IF</b>  | 1:100-1:400  |

## Data

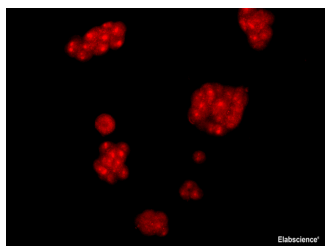


Western blot with Ampk2 Polyclonal antibody at dilution of 1:1000.lane 1:Hep G2 whole cell lysate, lane 2:Hela whole cell lysate, lane 3:NIH/3T3 whole cell lysate

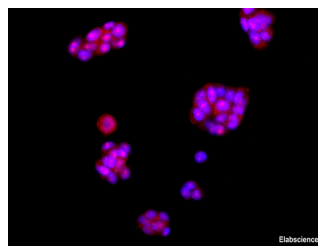
**Observed Mw:62 kDa**  
**Calculated Mw:62 kDa**



Immunohistochemistry of paraffin-embedded Human breast using AMPK alpha2 Polyclonal Antibody at dilution of 1:100



Immunofluorescence analysis of McF7 cells using AMPK alpha2 Polyclonal Antibody at dilution of 1:100



Immunofluorescence analysis of MCF7 cells using AMPK alpha2 Polyclonal Antibody at dilution of 1:100

## Preparation & Storage

**Storage** Store at -20°C. Avoid freeze / thaw cycles.

## Background

### For Research Use Only

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The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.

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