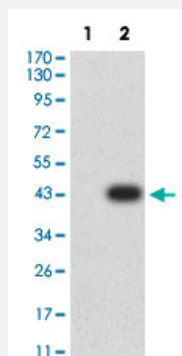


# PRKAB2 monoclonal antibody, clone 8F5B2

Catalog # MAB17941

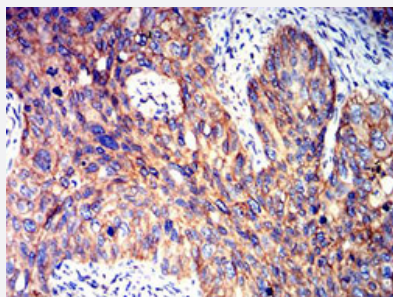
Size 100 ug

## Applications



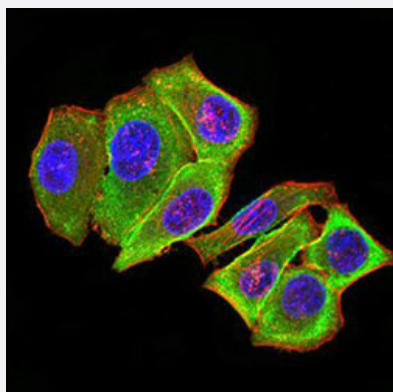
### Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: HEK293 and Lane 2: PRKAB2-hlgGFc transfected HEK293 cell lysates with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941).



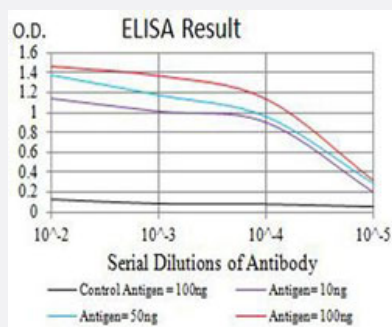
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix cancer with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941).



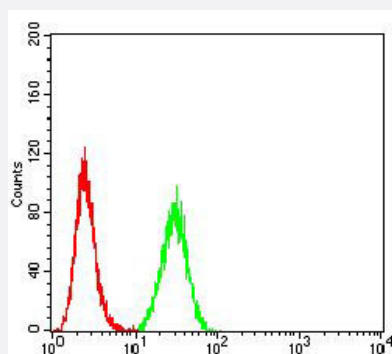
### Immunofluorescence

Immunofluorescent staining of HeLa cells with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



## Enzyme-linked Immunoabsorbent Assay

ELISA analysis with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941).



## Flow Cytometry

Flow cytometric analysis of HeLa cells with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941) (Green). Red: Negative Control.

## Specification

**Product Description** Mouse monoclonal antibody raised against partial recombinant human PRKAB2.

**Immunogen** Recombinant protein corresponding to amino acids 1-120 of human PRKAB2.

**Host** Mouse

**Theoretical MW (kDa)** 30.3

**Reactivity** Human

**Form** Liquid

**Isotype** IgG1

**Recommend Usage**

- ELISA (1:10000)
- Flow Cytometry (1:200-1:400)
- Immunofluorescence (1:200-1:1000)
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Western Blot (1:100-1:500)
- The optimal working dilution should be determined by the end user.

**Storage Buffer** In PBS (0.05% sodium azide).

**Storage Instruction**

- Store at 4°C. For long term storage store at -20°C.
- Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: HEK293 and Lane 2: PRKAB2-hlgFc transfected HEK293 cell lysates with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cervix cancer with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941).

- Immunofluorescence

Immunofluorescent staining of HeLa cells with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941).

- Flow Cytometry

Flow cytometric analysis of HeLa cells with PRKAB2 monoclonal antibody, clone 8F5B2 (Cat # MAB17941) (Green). Red: Negative Control.

## Gene Info — PRKAB2

|                    |                                                             |
|--------------------|-------------------------------------------------------------|
| Entrez GeneID      | <a href="#">5565</a>                                        |
| Protein Accession# | <a href="#">Q43741</a>                                      |
| Gene Name          | PRKAB2                                                      |
| Gene Alias         | MGC61468                                                    |
| Gene Description   | protein kinase, AMP-activated, beta 2 non-catalytic subunit |
| Omim ID            | <a href="#">602741</a>                                      |
| Gene Ontology      | <a href="#">Hyperlink</a>                                   |

**Gene Summary**

The protein encoded by this gene is a regulatory 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. This subunit may be a positive regulator of AMPK activity. It is highly expressed in skeletal muscle and thus may have tissue-specific roles. [provided by RefSeq]

**Other Designations**

5'-AMP-activated protein kinase, beta-2 subunit|AMP-activated protein kinase beta 2 non-catalytic subunit|AMPK beta 2|AMPK beta-2 chain|OTTHUMP00000015910

**Pathway**

- [Adipocytokine signaling pathway](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Insulin signaling pathway](#)

**Disease**

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)