

Anti-PRKAA2 Antibody

Catalog Number: M01420

About PRKAA2

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.

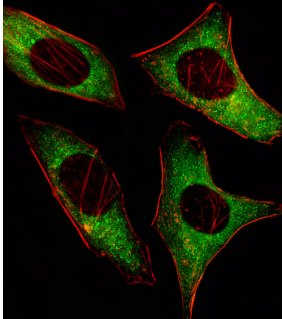
Overview

| | |
|----------------------|--|
| Product Name | Anti-PRKAA2 Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-PRKAA2 Antibody (Catalog # M01420). Tested in IF, WB application(s). This antibody reacts with Human. |
| Application | IF, WB |
| Clonality | Monoclonal 206CT5.4.2 |
| Formulation | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Storage Instructions | 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. |
| Host | Mouse |
| Uniprot ID | P54646 |

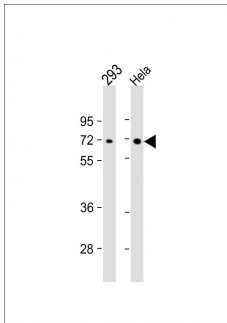
Technical Details

| | |
|----------------------------|--|
| Immunogen | This PRKAA2 monoclonal antibody is generated from mouse immunized with PRKAA2 recombinant protein. |
| Predicted Reactive Species | Bovine, Chicken, Horse, Monkey, Pig, Sheep, Xenopus |
| Isotype | IgG2a,K |
| Purification | This antibody is purified through a protein G column, followed by dialysis against PBS. |
| Suggested Dilutions | IF: 1:10-1:50 WB: 1:1000 |

Anti-PRKAA2 Antibody (M01420) Images



Fluorescent image of HeLa cell stained with PRKAA2 Antibody. HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with PRKAA2 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37°C). PRKAA2 immunoreactivity is localized to Cytoplasm significantly.



All lanes : Anti-PRKAA2 Antibody at 1:1000 dilution
Lane 1: 293 whole cell lysate
Lane 2: HeLa whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 62 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-PRKAA2 Antibody

For Research Use Only. Not for use in diagnostic procedures.