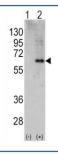


AMPK alpha 2 Antibody (F50381)

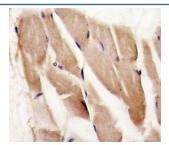
| Catalog No. | Formulation | Size |
|---------------|--|---------|
| F50381-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F50381-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

Bulk quote request

| Availability | 1-3 business days |
|----------------------|--|
| Species Reactivity | Human |
| Predicted Reactivity | Mouse, Rat |
| Format | Purified |
| Clonality | Polyclonal (rabbit origin) |
| Isotype | Rabbit Ig |
| Purity | Purified |
| UniProt | P54646 |
| Applications | Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 |
| Limitations | This AMPK alpha 2 antibody is available for research use only. |



Western blot analysis of AMPK alpha 2 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKAA2 gene (2).



IHC analysis of FFPE human skeletal muscle stained with AMPK alpha 2 antibody

Description

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.

Application Notes

Titration of the AMPK alpha 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 453-483 from the human protein was used as the immunogen for this AMPK alpha 2 antibody.

Storage

Aliquot the AMPK alpha 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.