Product datasheet

Anti-AMPK alpha 1 (phospho S496) antibody [EPR3051] ab92701

Overview

Product name
Anti-AMPK alpha 1 (phospho S496) antibody [EPR3051]

Description
Rabbit monoclonal [EPR3051] to AMPK alpha 1 (phospho S496)

Host species
Rabbit

Tested applications
Suitable for: WB, IP, ICC/IF
Unsuitable for: Flow Cyt or IHC-P

Species reactivity
Reacts with: Human

Immunogen
A phospho-specific peptide corresponding to residues surrounding Serine 487 of Human AMPK alpha 1.

Positive control
293T cell lysate; HeLa cells

General notes
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer
pH: 7.20
Preservative: 0.05% Sodium azide
Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant

Purity
Tissue culture supernatant

Clonality
Monoclonal

Clone number
EPR3051

Isotype
IgG
Applications

Our Abpromise guarantee covers the use of ab92701 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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**Application notes**

ICC/IF: 1/100 - 1/250.
IP: 1/10 - 1/100.

Is unsuitable for Flow Cyt or IHC-P.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

**Function**

Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit.

**Sequence similarities**

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily. Contains 1 protein kinase domain.

Images
Western blot - Anti-AMPK alpha 1 (phospho S496) antibody [EPR3051] (ab92701)

All lanes: Anti-AMPK alpha 1 (phospho S496) antibody [EPR3051] (ab92701) at 1/1000 dilution

Lane 1: 293T cell lysate untreated
Lane 2: 293T cell lysate treated with LP

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: HRP-labeled goat anti-rabbit at 1/2000 dilution

Predicted band size: 64 kDa

Immunocytochemistry/ Immunofluorescence - Anti-AMPK alpha 1 (phospho S496) antibody [EPR3051] (ab92701)

Immunofluorescent staining of AMPK alpha 1 in HeLa cells using ab92701 at 1/100 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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