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Datasheet for ABIN2855115

anti-PRKAG1 antibody (Center)

1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	PRKAG1
Binding Specificity:	Center
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAG1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human AMPK gamma 1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Pig (Porcine), Rhesus Monkey, Cow (Bovine)
Cross-Reactivity (Details):	Pig (100 %), Rhesus Monkey (100 %), Bovine (100 %)
Characteristics:	Rabbit Polyclonal antibody to AMPK gamma 1 (5'-AMP-activated protein kinase subunit gamma-1) AMPK gamma 1 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	PRKAG1
Alternative Name:	AMPK gamma 1 (PRKAG1 Products)
Background:	<p>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 is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed.</p>
Molecular Weight:	38 kDa
Gene ID:	5571
Pathways:	AMPK Signaling , Regulation of Carbohydrate Metabolic Process , Warburg Effect

Application Details

Application Notes:	<p>Suggested dilution Reference Immunoprecipitation Assay-dependent dilution Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceImmunoprecipitationAssay-dependent dilution Western blot1:500-1:3000*</p>
Comment:	Positive Control: mouse liver
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.33 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

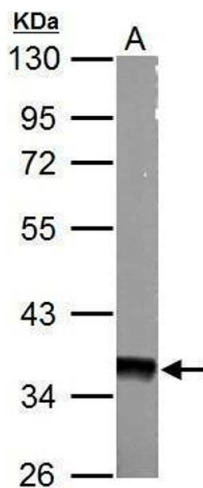
Storage: -20 °C

Storage Comment: Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in: Chao, Wroblewski, Ilkayeva, Stevens, Bain, Meyer, Schenk, Martinez, Vergnes, Narkar, Drew, Hong, Boyadjian, Hevener, Evans, Reue, Spencer, Newgard, Tontonoz: "Skeletal muscle Nur77 expression enhances oxidative metabolism and substrate utilization." in: **Journal of lipid research**, Vol. 53, Issue 12, pp. 2610-9, (2012) ([PubMed](#)).

Images



Western Blotting

Image 1. WB Image Sample (50 ug of whole cell lysate) A: mouse liver 10% SDS PAGE antibody diluted at 1:500