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Datasheet for ABIN2856652
anti-PRKAG2 antibody (full length)

3 Images

Overview

Quantity:	100 µL
Target:	PRKAG2
Binding Specificity:	full length
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAG2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Full length human AMPK gamma 2 Recombinant protein.
Isotype:	IgG
Characteristics:	Rabbit Polyclonal antibody to AMPK gamma 2 (protein kinase, AMP-activated, gamma 2 non-catalytic subunit) AMPK gamma 2 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	PRKAG2
Alternative Name:	AMPK gamma 2 (PRKAG2 Products)

Target Details

Background: AMP-activated protein kinase (AMPK) is a heterotrimeric protein composed of a catalytic alpha subunit, a noncatalytic beta subunit, and a noncatalytic regulatory gamma subunit. Various forms of each of these subunits exist, encoded by different genes. AMPK is an important energy-sensing enzyme that monitors cellular energy status and functions by inactivating key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This gene is a member of the AMPK gamma subunit family and encodes a protein with four cystathionine beta-synthase domains. Mutations in this gene have been associated with ventricular pre-excitation (Wolff-Parkinson-White syndrome), progressive conduction system disease and cardiac hypertrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Molecular Weight: 63 kDa

Gene ID: 51422

Pathways: [AMPK Signaling](#), [Cellular Glucan Metabolic Process](#), [Ribonucleoside Biosynthetic Process](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

Application Details

Application Notes: Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher. Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000*

Comment: Positive Control: HepG2

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: 0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.

Preservative: Thimerosal (Merthiolate)

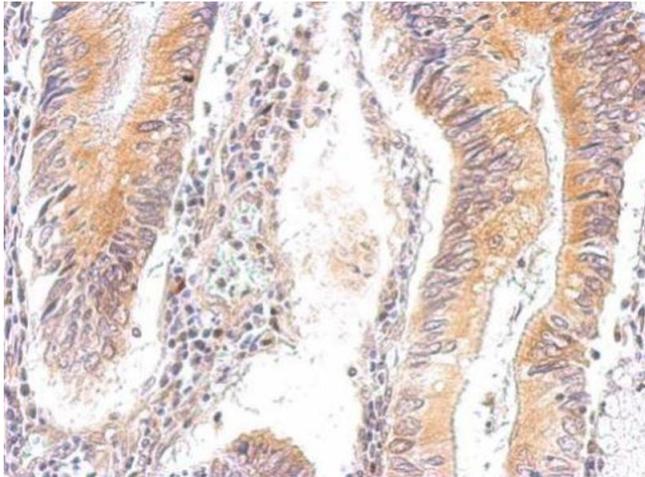
Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

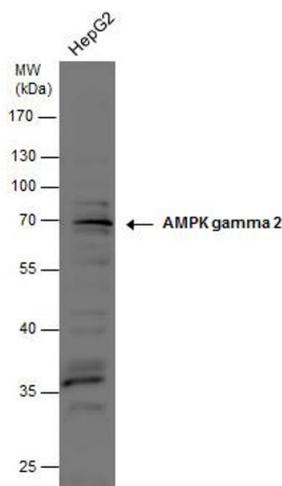
Storage Comment: Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Validation report #100014 for Immunofluorescence (IF)



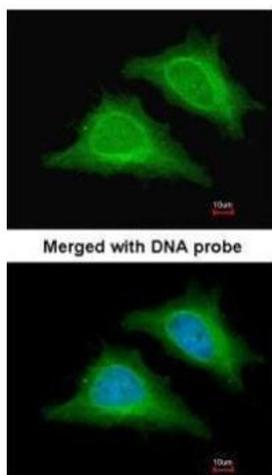
Immunohistochemistry

Image 1. IHC-P Image AMPK gamma 2 antibody detects PRKAG2 protein at cytosol on human gastric cancer by immunohistochemical analysis. Sample: Paraffin-embedded gastric cancer tissue. AMPK gamma 2 antibody , dilution: 1:500.



Western Blotting

Image 2. WB Image AMPK gamma 2 antibody detects AMPK gamma 2 protein by western blot analysis. Whole cell extracts (30 µg) was separated by 10% SDS-PAGE, and the membrane was blotted with AMPK gamma 2 antibody , at a dilution of 1:1000.



Immunofluorescence

Image 3. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using AMPK gamma-2, antibody at 1:200 dilution.