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anti-PRKAB1 antibody





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#### Overview

Quantity:	100 μL	
Target:	PRKAB1	
Reactivity:	Human, Mouse	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This PRKAB1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)	

#### **Product Details**

Immunogen:	Recombinant Protein

PRKAB1

# **Target Details**

Target:

Alternative Name:	AMPK beta 1 (PRKAB1 Products)
Background:	Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase
	that plays a key role in regulating cellular energy metabolism. In response to reduction of
	intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-
	consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell
	growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by
	longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of
	cellular polarity by remodeling the actin cytoskeleton, probably by indirectly activating myosin.

# **Target Details**

Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3).

UniProt: Q9Y478

Pathways: AMPK Signaling, Warburg Effect

# **Application Details**

Application Notes: IP: 1:500. WB: 1:1000. IHC: 1:100. ICC: 1:100

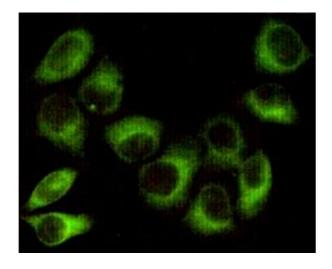
Restrictions: For Research Use only

## Handling

Format: Liquid

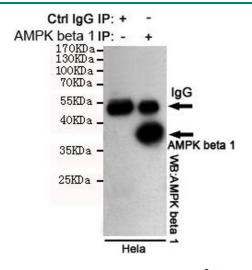
Storage: 4 °C,-20 °C

## **Images**



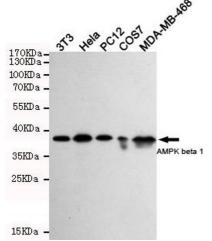
## **Immunocytochemistry**

**Image 1.** Immunocytochemistry staining of HeLa cells fixed with 1 % Paraformaldehyde and using PK beta 1 mouse mAb (dilution 1:100).



#### **Immunoprecipitation**

**Image 2.** Immunoprecipitation analysis of Hela cell lysates using PK beta 1 mouse mAb.



#### **Western Blotting**

**Image 3.** Western blot detection of PK beta 1 in 3T3,Hela,PC-12,COS7 and MDA-MB-468 cell lysates using PK beta 1 mouse mAb (1:1000 diluted).Predicted band size:38KDa.Observed band size:38KDa.Exposure time:5 min.

Please check the product details page for more images. Overall 4 images are available for ABIN6241589.