

PRKAB1 / AMPK Beta 1 Antibody (aa147-196)
Rabbit Polyclonal Antibody
Catalog # ALS14719

Specification

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) - Product Information

Application	WB, IHC
Primary Accession	O9Y478
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30kDa KDa

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) - Additional Information

Gene ID 5564

Other Names

5'-AMP-activated protein kinase subunit beta-1, AMPK subunit beta-1, AMPKb, PRKAB1, AMPK

Target/Specificity

PRKAB1 antibody detects endogenous levels of total AMPK beta1 protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) is for research use only and not for use in diagnostic or therapeutic procedures.

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) - Protein Information

Name PRKAB1

Synonyms AMPK

Function

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. 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).

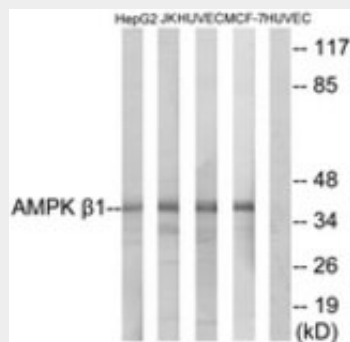
Volume
50 μ l

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) - Protocols

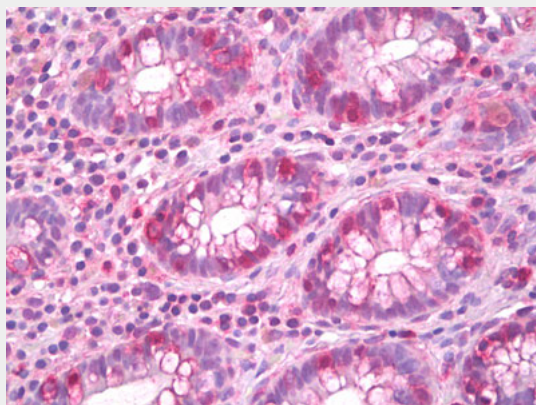
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) - Images



Western blot of extracts from HepG2/Jurkat/HUVEC/MCF-7 cells, using PRKAB1 antibody.



Anti-PRKAB1 antibody IHC of human colon.

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) - Background

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remodeling the actin cytoskeleton; probably by indirectly activating myosin. 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).

PRKAB1 / AMPK Beta 1 Antibody (aa147-196) - References

Carling D., et al. Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
Stapleton D., et al. FEBS Lett. 409:452-456(1997).
Yamagata K., et al. Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.
Wang X., et al. Submitted (JAN-1999) to the EMBL/GenBank/DDBJ databases.
Scherer S.E., et al. Nature 440:346-351(2006).