

**Product Name: AMPK beta 1 (1A7) Mouse Monoclonal Antibody**  
**Catalog #: AMM03496**



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## Summary

<b>Production Name</b>	AMPK beta 1 (1A7) Mouse Monoclonal Antibody
<b>Description</b>	Primary antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC-F,IHC-P,ICC/IF,IP
<b>Reactivity</b>	Human,Mouse,Rat,Monkey

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG2a
<b>Clonality</b>	Monoclonal Antibody
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Purified

## Immunogen

<b>Gene Name</b>	PRKAB1 5' '-AMP-activated protein kinase subunit beta-1; AMP-activated; noncatalytic; beta-1;
<b>Alternative Names</b>	AMPK; AMPK beta 1 chain; AMPK subunit beta-1; AMPK-BETA-1; AMPKb; HAMPKb; PRKAB1
<b>Gene ID</b>	5564
<b>SwissProt ID</b>	Q9Y478

## Application

<b>Dilution Ratio</b>	WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200 IP: 1/20
<b>Molecular Weight</b>	Calculated MW: 30 kDa; Observed MW: 38 kDa

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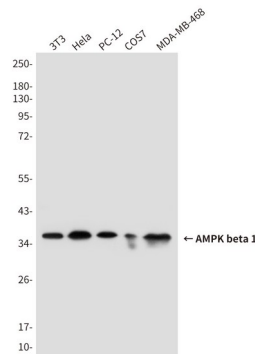
## Background

AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. AMPK is a heterotrimeric complex composed of a catalytic  $\alpha$  subunit and regulatory  $\beta$  and  $\gamma$  subunits, each of which is encoded by two or three distinct genes ( $\alpha$ 1, 2;  $\beta$ 1, 2;  $\gamma$ 1, 2, 3).

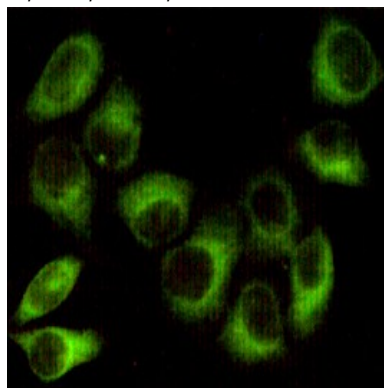
## Research Area

Signal Transduction

## Image Data

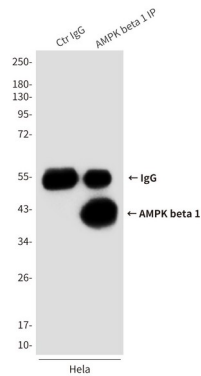


Western blot analysis of AMPK beta 1 in 3T3, HeLa, PC-12, COS7 and MDA-MB-468 lysates using AMPK beta 1 antibody.

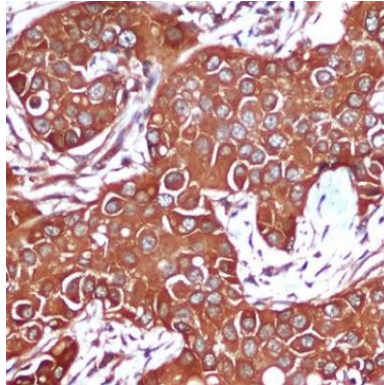


Immunocytochemistry analysis of AMPK beta 1 (1A7) in HeLa using AMPK beta 1 antibody.

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Immunoprecipitation analysis of AMPK beta 1 (1A7) in HeLa lysates using AMPK beta 1 antibody.



Immunohistochemistry analysis of paraffin-embedded Breast cancer using AMPK beta 1 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

## Note

For research use only.