Mouse AMPK beta 1 Monoclonal Antibody | anti-AMPK beta 1 antibody

AMPK beta 1 Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA300758	**Mouse**	**Human, Mouse, Rat, Monkey**	**Immunohistochemistry, Immunoprecipitation, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

AMPK beta 1; Monoclonal Antibody; AMPK beta 1 Monoclonal Antibody; 1300015D22Rik; 5 AMP activated protein kinase subunit beta 1; 5"-AMP-activated protein kinase subunit beta-1; AAKB1_HUMAN; AMP-ACTIVATED PROTEIN KINASE; NONCATALYTIC; BETA-1; AMP-activated; noncatalytic; beta-1; AMPK; AMPK beta 1 chain; anti-AMPK beta 1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Monoclonal
Clone Number	1A7-E11-E9
Specificity	This antibody detects endogenous levels of AMPK beta 1 and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Sequence Length	270
Applicable Applications for anti-AMPK beta 1 antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Purified recombinant human AMPK beta 1 protein fragments expressed in E Coli.
Target Name	AMPK beta 1
Preparation and Storage	Store at -20 degree C

IMAGES

IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Breast cancer using AMPK beta 1 Mouse mAb (1/200 dilution).Antigen retrieval was performed by pressure cooking in citrate buffer (pH 6.0).

IP (Immunoprecipitation)
Immunoprecipitation analysis of Hela cell lysates using AMPK beta 1 antibody.

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

ICC (Immunocytochemistry)
Immunocytochemistry staining of HeLa cells fixed with 1% Paraformaldehyde and using anti-AMPK beta 1 antibody (dilution 1:100).

ADDITIONAL INFORMATION

Related Product Information for anti-AMPK beta 1 antibody	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).
Product Categories/Family for anti-AMPK beta 1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923359
NCBI GeneID	5564
NCBI Accession #	NP_006244.2
NCBI GenBank Nucleotide #	NM_006253.4
UniProt Accession #	Q9Y478; Q9UBV0; Q9UE20; Q9UEX2; Q9Y6V8
Molecular Weight	30,382 Da
NCBI Official Full Name	5'-AMP-activated protein kinase subunit beta-1
NCBI Official Synonym Full Names	protein kinase, AMP-activated, beta 1 non-catalytic subunit
NCBI Official Symbol	PRKAB1
NCBI Official Synonym Symbols	AMPK; HAMPKb
NCBI Protein Information	5'-AMP-activated protein kinase subunit beta-1
UniProt Protein Name	5'-AMP-activated protein kinase subunit beta-1
UniProt Gene Name	**PRKAB1**
UniProt Synonym Gene Names	AMPK; AMPK subunit beta-1; AMPKb
UniProt Entry Name	AAKB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/ampk-beta-1-antibody-clone-1a7-e11-e9-immunohistochemistry-immunoprecipitation-immunocytochemistry-western-blot-elisa/300758