

AMPK beta 2 Polyclonal Antibody | anti-AMPK beta 2 antibody

Anti-AMPK beta 2 Antibody

CATALOG #	REACTIVITY	APPLICATIONS
AAA46538	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunocytochemistry, Immunohistochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AMPK beta 2; Polyclonal Antibody; Anti-AMPK beta 2 Antibody; 5'-AMP-activated protein kinase subunit beta-2; 5' AMP activated protein kinase beta 2 subunit; 5' AMP activated protein kinase subunit beta 2; 5"-AMP-activated protein kinase subunit beta-2; AAKB2_HUMAN; AMP activated protein kinase beta 2 non catalytic subunit; AMPK beta 2 chain; AMPK subunit beta 2; AMPK subunit beta-2; MGC61468; PRKAB 2; Prkab2; Protein kinase AMP activated beta 2 non catalytic subunit; protein kinase; AMP-activated; beta 2 non-catalytic subunit; anti-AMPK beta 2 antibody

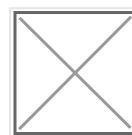
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	No cross reactivity with other proteins
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	272
Applicable Applications for anti-AMPK beta 2 antibody	FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human AMPK beta 2 (56-89aa DKEFVSWQQDLEDSVKPTQQARPTVIRWSEGGKE), different from the related mouse sequence by three amino acids, and from the related rat sequence by two amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, store at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti- AMPK beta 2 Picoband antibody, AAA46538, IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemistry)
Anti- AMPK beta 2 Picoband antibody, AAA46538, IHC(P)IHC(P): Rat Intestine Tissue

**IHC (Immunohistochemistry)**

Anti- AMPK beta 2 Picoband antibody, AAA46538, IHC(P)IHC(P): Mouse Intestine Tissue

**WB (Western Blot)**

Anti- AMPK beta 2 Picoband antibody, AAA46538, Western blottingAll lanes: Anti AMPK beta 2 (AAA46538) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Skeletal Muscle Tissue Lysate at 50ugLane 3: PANC Whole Cell Lysate at 40ugPredicted bind size: 30KDObserved bind size: 30KD

ADDITIONAL INFORMATION

Related Product Information for anti-AMPK beta 2 antibody	Description: Rabbit IgG polyclonal antibody for 5'-AMP-activated protein kinase subunit beta-2(PRKAB2) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: 5'-AMP-activated protein kinase subunit beta-2 is an enzyme that in humans is encoded by the PRKAB2 gene. The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. It is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit may be a positive regulator of AMPK activity. It is highly expressed in skeletal muscle and thus may have tissue-specific roles. Multiple alternatively spliced transcript variants have been found for this gene.
References	1. "Entrez Gene: PRKAB2 protein kinase, AMP-activated, beta 2 non-catalytic subunit". 2. Stapleton D, Mitchellhill KI, Gao G, Widmer J, Michell BJ, Teh T, House CM, Fernandez CS, Cox T, Witters LA, Kemp BE (February 1996). "Mammalian AMP-activated protein kinase subfamily". J Biol Chem 271 (2): 611-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885561
NCBI GeneID	5565
NCBI Accession #	NP_005390.1
NCBI GenBank Nucleotide #	NM_005399.4
UniProt Accession #	O43741; Q5VXY0; A8K9V5; B4DH06
NCBI Official Full Name	5'-AMP-activated protein kinase subunit beta-2
NCBI Official Synonym Full Names	protein kinase AMP-activated non-catalytic subunit beta 2
NCBI Official Symbol	PRKAB2
NCBI Protein Information	5'-AMP-activated protein kinase subunit beta-2
UniProt Protein Name	5'-AMP-activated protein kinase subunit beta-2
UniProt Gene Name	PRKAB2
UniProt Synonym Gene Names	AMPK subunit beta-2
UniProt Entry Name	AAKB2_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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