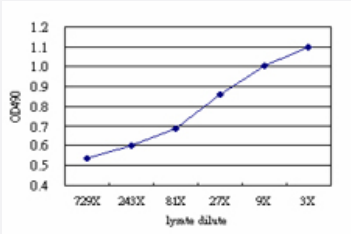
PRKAB1 (Human) Matched Antibody Pair

Catalog # H00005564-AP51 Size 1 Set

Applications



Sandwich ELISA detection sensitivity ranging from approximately 27x to 3x dilution of the PRKAB1 293T overexpression lysate (non-denatured).

Specification

Product Description	This antibody pair set comes with a matched antibody pair to detect and quantify the protein level of human PRKAB1.
Reactivity	Human
Interspecies Antigen Sequence	Mouse (96%); Rat (95%)
Quality Control Testing	Standard curve using PRKAB1 293T overexpression lysate (non-denatured) as an analyte. Sandwich ELISA detection sensitivity ranging from approximately 27x to 3x dilution of the PRKAB1 2 93T overexpression lysate (non-denatured).
Supplied Product	Antibody pair set content: 1. Capture antibody: mouse monoclonal anti-PRKAB1 (100 ug) 2. Detection antibody: rabbit purified polyclonal anti-PRKAB1 (50 ug) *Reagents are sufficient for at least 3-5 x 96 well plates using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze tha w cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- ELISA Pair (Transfected lysate)

  Protocol Download

Gene Info — PRKAB1

Entrez GeneID	5564
Gene Name	PRKAB1
Gene Alias	AMPK, HAMPKb, MGC17785
Gene Description	protein kinase, AMP-activated, beta 1 non-catalytic subunit
Omim ID	602740
Gene Ontology	Hyperlink
Gene Summary	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. AMPK 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. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex. [provided by RefSeq
Other Designations	5'-AMP-activated protein kinase beta-1 subunit|AMP-activated protein kinase beta 1 non-catalytic subunit|AMP-activated protein kinase beta subunit|AMPK beta -1 chain|AMPK beta 1|protein kinase, AMP-activated, noncatalytic, beta-1

Pathway

- Adipocytokine signaling pathway
- Hypertrophic cardiomyopathy (HCM)
- Insulin signaling pathway

Disease

- Alzheimer disease

- Atherosclerosis
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Complications
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis