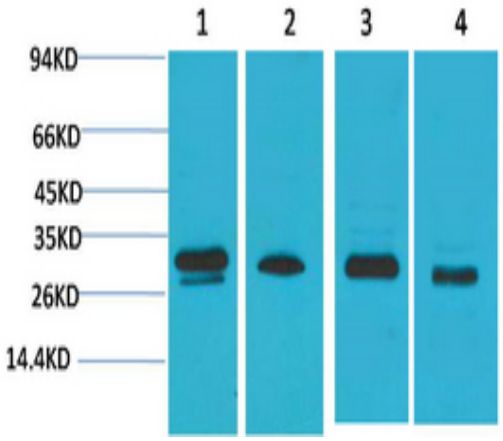
Best Tools for immunology Research

AMPKβ2 Polyclonal Antibody

Catalog No :	YN5679
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	AMPKβ2
Fields :	>>FoxO signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Apelin signaling pathway;>>Tight junction;>>Circadian rhythm;>>Thermogenesis;>>Insulin signaling pathway;>>Adipocytokine signaling pathway;>>Oxytocin signaling pathway;>>Glucagon signaling pathway;>>Insulin resistance;>>Non-alcoholic fatty liver disease;>>Alcoholic liver disease;>>Hypertrophic cardiomyopathy
Gene Name :	PRKAB2
Protein Name :	5'-AMP-activated protein kinase subunit beta-2
Human Gene Id :	5565
Human Swiss Prot No :	O43741
Mouse Swiss Prot No :	Q6PAM0
Rat Swiss Prot No :	Q9QZH4
Immunogen :	Recombinant Protein of AMPKβ2
Specificity :	The antibody detects endogenous AMPKβ2 protein.
Formulation :	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	30kD
Cell Pathway :	Insulin_Receptor;Adipocytokine;Hypertrophic cardiomyopathy (HCM);
Background :	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. 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. [provided by RefSeq, Jul 2013],
Function :	function:AMPK is responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. Also regulates cholesterol synthesis via phosphorylation and inactivation of hydroxymethylglutaryl-CoA reductase and hormone-sensitive lipase. This is a regulatory subunit, may be a positive regulator of AMPK activity. It may also serve as an adapter molecule for the catalytic alpha-subunit.,PTM:Phosphorylated when associated with the catalytic subunit.,similarity:Belongs to the 5'-AMP-activated protein kinase beta subunit family.,subunit:Heterotrimer of an alpha catalytic subunit, a beta and a gamma non-catalytic regulatory subunits.,
Subcellular Location :	nucleoplasm,cytosol,nucleotide-activated protein kinase complex,
Expression :	Liver,Pancreas,

Products Images



Western blot analysis of 1) 293T, 2) HepG2, 3) Mouse Heart Tissue, 4) Rat Heart Tissue using AMPKβ2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000