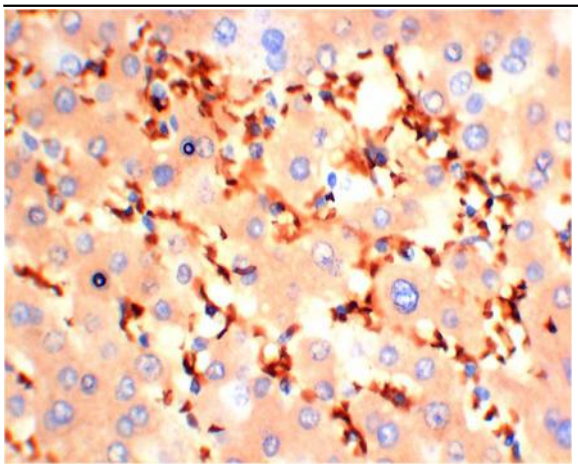
Best Tools for immunology Research

AMPKβ2 Mouse mAb(Mix-mA)

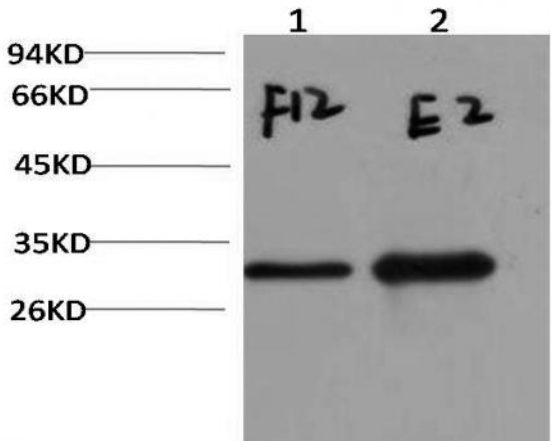
Catalog No :	YM33082
Reactivity :	Human;Mouse;Rat
Applications :	IHC;WB
Target :	AMPKβ2
Fields :	>>FoxO signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Apelin signaling pathway;>>Tight junction;>>Circadian rhythm;>>Thermogenesis;>>Insulin 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 :	AMPKβ2
Human Gene Id :	5565
Human Swiss Prot No :	O43741
Mouse Gene Id :	108097
Mouse Swiss Prot No :	Q6PAM0
Rat Gene Id :	64562
Rat Swiss Prot No :	Q9QZH4
Immunogen :	Synthesized peptide derived from human AMPKβ2
Specificity :	This antibody detects endogenous levels of AMPKβ2 at Human, Mouse,Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse

Dilution :	IHC1:50-200 ,WB 1:1000-2000
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	30kD
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,
Sort :	1992
No4 :	1

Products Images



Immunohistochemical analysis of paraffin-embedded Human LiverTissue using AMPK β2 Mouse Monoclonal antibody diluted at 1:200.



Western blot analysis of 1)293T Cell, 2) Mouse Brain Tissue Lysate using AMPKβ2Mouse Monoclonal mAb diluted at 1:2,000.