AMPKβ1 (Phospho Ser182) Rabbit pAb

CatalogNo: YP0714

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Monkey

Applications
- WB,IHC,IF,ELISA

MW
- 33kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human AMPK beta1 around the phosphorylation site of Ser181. AA range:147-196

Specificity Phospho-AMPKβ1 (S182) Polyclonal Antibody detects endogenous levels of AMPKβ1 protein only when phosphorylated at S182.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SSsPP

Target Information

Gene name PRKAB1

Protein Name 5'-AMP-activated protein kinase subunit beta-1

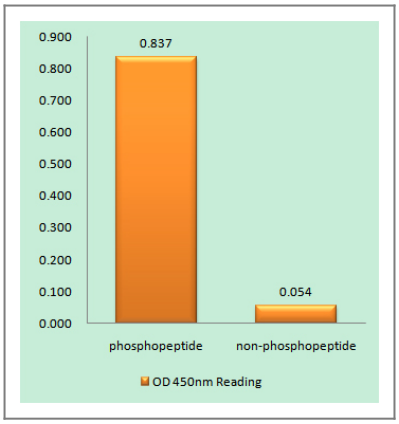
Organism	Gene ID	UniProt ID
Human	5564;	Q9Y478;
Mouse	19079;	Q9R078;
Rat	83803;	P80386;

Cellular Localization nucleus ,nucleoplasm ,cytosol ,nucleotide-activated protein kinase complex ,

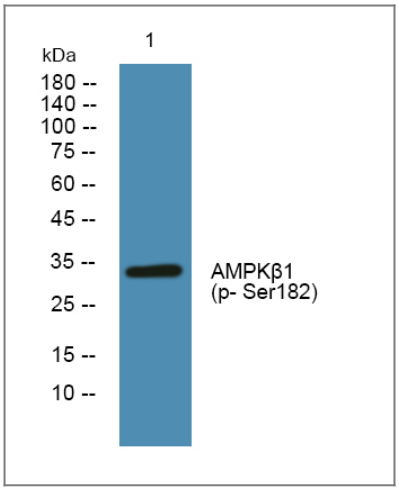
Tissue specificity Brain ,Lung ,Muscle ,Platelet ,

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 adaptor molecule for the catalytic alpha-subunit. ,PTM:Phosphorylated. ,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. Interacts with FNIP1 and FNIP2. ,

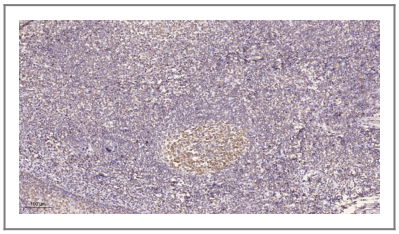
Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AMPK beta1 (Phospho-Ser181) Antibody



Western blot analysis of lysates from SH-SY5Y cells, primary antibody was diluted at 1:1000, 4℃ over night



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4℃ overnight.3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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Please scan the QR code to access additional product information: **AMPKβ1 (Phospho Ser182) Rabbit pAb**