

AMPK β 1 (Phospho Ser182) Rabbit pAb

CatalogNo: YP0011

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 38kD (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 1:40000

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-AMPK β 1 (S182) Polyclonal Antibody detects endogenous levels of AMPK β 1 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

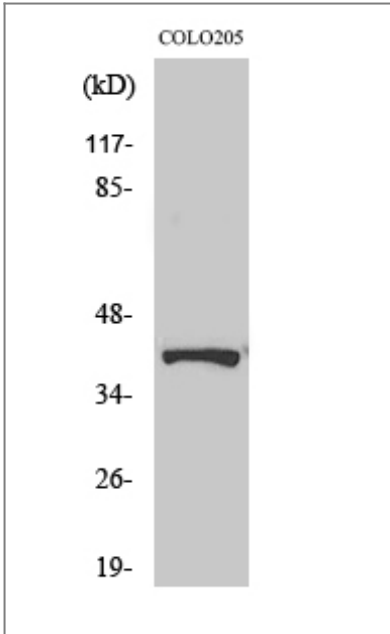
Organism	Gene ID	UniProt ID
Human	5564 ;	Q9Y478 ;
Mouse	19079 ;	Q9R078 ;
Rat	83803 ;	P80386 ;

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

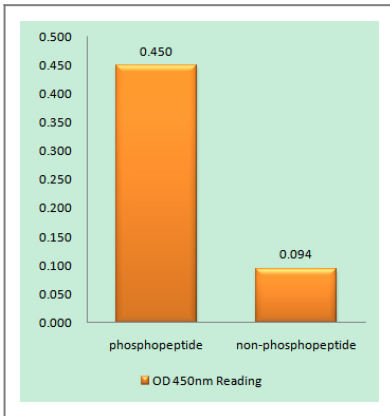
Tissue specificity Brain ,Lung ,Muscle ,Platelet ,

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. ,

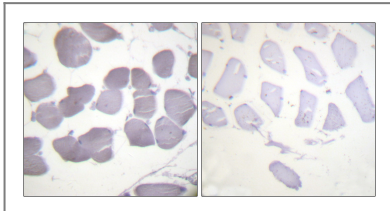
| Validation Data



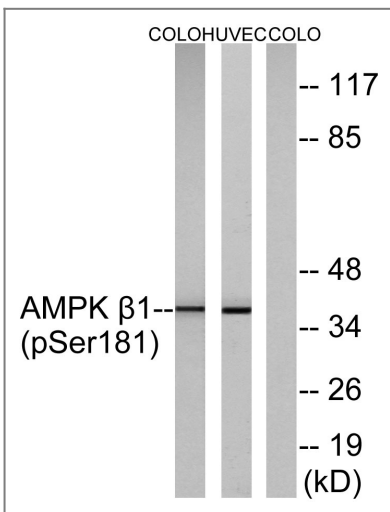
Western Blot analysis of various cells using Phospho-AMPK β 1 (S182) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



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



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using AMPK beta1 (Phospho-Ser181) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COLO205 cells and HUVEC cells, using AMPK beta1 (Phospho-Ser181) Antibody. The lane on the right is blocked with the phospho peptide.

| Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
AMPK β 1 (Phospho Ser182) Rabbit pAb

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