Product Name: PHKA1/2 Rabbit Polyclonal Antibody

Catalog #: APRab16072



Summary

Production Name PHKA1/2 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,ELISA,IHC-P **Reactivity** Human,Mouse,Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name PHKA1/PHKA2

PHKA1; PHKA; Phosphorylase b kinase regulatory subunit alpha; skeletal muscle

Alternative Names isoform; Phosphorylase kinase alpha M subunit; PHKA2; PHKLA; PYK; Phosphorylase b

kinase regulatory subunit alpha, liver isoform; Phosphorylase kinase alpha L sub

Gene ID 5255/5256

P46020/P46019. The antiserum was produced against synthesized peptide derived from

human KPB1/2. AA range:31-80

Application

SwissProt ID

Dilution Ratio WB 1:500-2000, IHC-P 1:50-300, ELISA 2000-20000

Molecular Weight 137kDa

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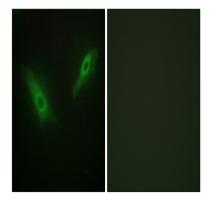
Background

Phosphorylase kinase is a polymer of 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunit includes the skeletal muscle and hepatic isoforms, and the skeletal muscle isoform is encoded by this gene. The beta subunit is the same in both the muscle and hepatic isoforms, and encoded by one gene. The gamma subunit also includes the skeletal muscle and hepatic isoforms, which are encoded by two different genes. The delta subunit is a calmodulin and can be encoded by three different genes. The gamma subunits contain the active site of the enzyme, whereas the alpha and beta subunits have regulatory functions controlled by phosphorylation. The delta subunit mediates the dependence of the enzyme on calcium concentration. Mutations in this gene cause glycogen storage disease type 9D, also known as X-linked muscle glycogenosis. Alternatively spliced transcript variandisease: Defects in PHKA1 are the cause of glycogen storage disease type 9D (GSD9D) [MIM:300559]; also known as X-linked muscle glycogenosis. GSD9D is a metabolic disorder characterized by slowly progressive, predominantly distal muscle weakness and atrophy. Clinical features include exercise intolerance with early fatiguability, pain, cramps and occasionally myoglobinuria, enzyme regulation: By phosphorylation of various serine residues. Allosteric regulation by calcium.,function:Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I. The alpha chain may bind calmodulin, pathway: Glycan biosynthesis; glycogen metabolism., similarity: Belongs to the phosphorylase b kinase regulatory chain family, subunit: Polymer of 16 chains, four each of alpha, beta, gamma, and delta. Alpha and beta are regulatory chains, gamma is the catalytic chain, and delta is calmodulin.,tissue specificity:Muscle specific. Isoform 1 is predominant in vastus lateralis muscle. Isoform 2 predominates slightly in heart, and it predominates clearly in the other tissues tested.,

Research Area

Calcium;Insulin Receptor;

Image Data

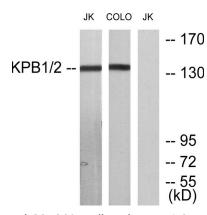


Immunofluorescence analysis of HeLa cells, using KPB1/2 Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from Jurkat and COLO205 cells, using KPB1/2 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.