



PHKA1/2 Monoclonal Antibody

Catalog No	BYmab-14909		
Isotype	IgG		
Reactivity	Human;Mouse;Rat		
Applications	WB		
Gene Name	PHKA1/PHKA2		
Protein Name	Phosphorylase b kinase regulatory subunit alpha skeletal muscle isoform/Phosphorylase b kinase regulatory subunit alpha liver isoform		
Immunogen	The antiserum was produced against synthesized peptide derived from human KPB1/2. AA range:31-80		
Specificity	PHKA1/2 Monoclonal Antibody detects endogenous levels of PHKA1/2 protein.		
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.		
Source	Monoclonal, Mouse,IgG		
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.		
Dilution	WB 1:500-2000		
Concentration	1 mg/ml		
Purity	≥90%		
Storage Stability	-20°C/1 year		
Synonyms	PHKA1; PHKA; Phosphorylase b kinase regulatory subunit alpha; skeletal muscle isoform; Phosphorylase kinase alpha M subunit; PHKA2; PHKLA; PYK; Phosphorylase b kinase regulatory subunit alpha, liver isoform; Phosphorylase kinase alpha L sub		
Observed Band	137kD		
Cell Pathway	Cell membrane ; Lipid-anchor ; Cytoplasmic side .		
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.		
Function	disease: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		
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	in certain subs calmodulin.,pa metabolism.,sii family.,subunit:	on:Phosphorylase b kinase catalyzes the phosphorylation of serine trates, including troponin I. The alpha chain may bind thway:Glycan biosynthesis; glycogen milarity:Belongs to the phosphorylase b kinase regulatory chain :Polymer of 16 chains, four each of alpha, beta, gamma, and delta. a are regulatory chains, gamma is the catalytic chain, and d		
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			
matters needing attention	Avoid repeated	I freezing and thawing!		
Usage suggestions	This product ca more information	an be used in immunological reaction related experiments. For on, please consult technical personnel.		
Products Images				
JK	COLO JK	Western Blot analysis of various cells using PHKA1/2		

-- 170

-- 130

-- 95

-- 72

-- 55 (kD)

KPB1/2 --

Monoclonal Antibody

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