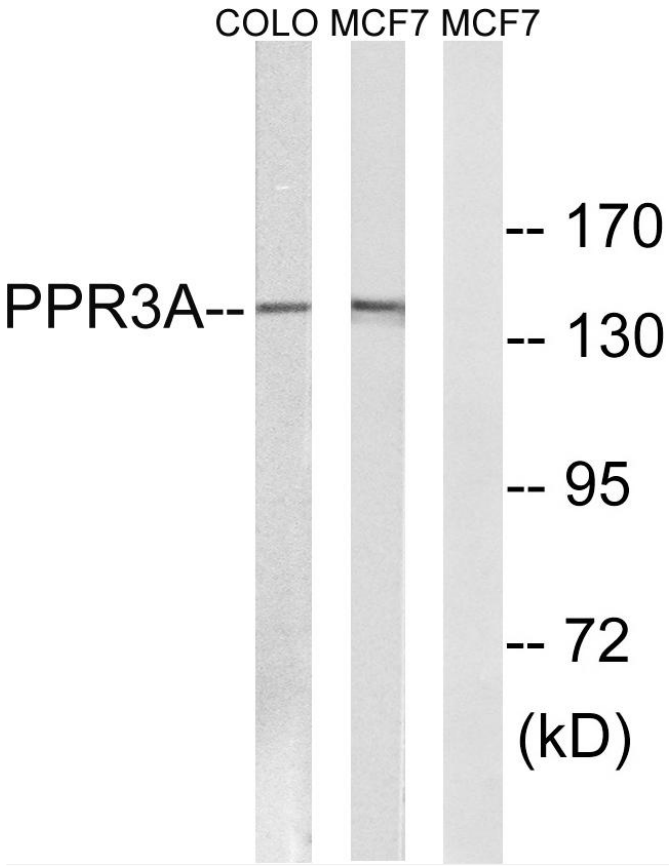
PPP1R3A Monoclonal Antibody

Catalog No	YP-mAb-04099
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	PPP1R3A
Protein Name	Protein phosphatase 1 regulatory subunit 3A
Immunogen	The antiserum was produced against synthesized peptide derived from human PPP1R3A. AA range:647-696
Specificity	PPP1R3A Monoclonal Antibody detects endogenous levels of PPP1R3A 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 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PPP1R3A; PP1G; Protein phosphatase 1 regulatory subunit 3A; Protein phosphatase 1 glycogen-associated regulatory subunit; Protein phosphatase type-1 glycogen targeting subunit; RG1
Observed Band	140kD
Cell Pathway	Membrane ; Single-pass membrane protein .
Tissue Specificity	Skeletal muscle and heart.
Function	disease:Defects in PPP1R3A are a cause of insulin resistance (Ins resistance).,disease:Defects in PPP1R3A are a cause of susceptibility to noninsulin-dependent diabetes mellitus (NIDDM) [MIM:125853]; also known as diabetes mellitus type II. NIDDM is characterized by an autosomal dominant mode of inheritance, onset during adulthood and insulin resistance.,domain:The CBM21 domain is known to be involved in the localization to glycogen and is characteristic of some regulatory subunit of phosphatase complexes.,function:Seems to act as a glycogen-targeting subunit for PP1. PP1 is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Plays an important role in glycogen synthesis but is not essential for insulin activation of glycogen synthase.,PTM:Phosphorylation at Ser-46 by ISPK stimulates the dephosphorylation of

Background	The glycogen-associated form of protein phosphatase-1 (PP1) derived from skeletal muscle is a heterodimer composed of a 37-kD catalytic subunit and a 124-kD targeting and regulatory subunit. This gene encodes the regulatory subunit which binds to muscle glycogen with high affinity, thereby enhancing dephosphorylation of glycogen-bound substrates for PP1 such as glycogen synthase and glycogen phosphorylase kinase. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using PPP1R3A Monoclonal Antibody