Best Tools for immunology Research

PPP1R3A Polyclonal Antibody

Catalog No :	YT3840
Reactivity :	Human;Mouse
Applications :	WB;IHC
Target :	PPP1R3A
Fields :	>>Insulin signaling pathway;>>Insulin resistance
Gene Name :	PPP1R3A
Protein Name :	Protein phosphatase 1 regulatory subunit 3A
Human Gene Id :	5506
Human Swiss Prot No :	Q16821
Mouse Swiss Prot No :	Q99MR9
Immunogen :	The antiserum was produced against synthesized peptide derived from human PPP1R3A. AA range:647-696
Specificity :	PPP1R3A Polyclonal Antibody detects endogenous levels of PPP1R3A protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 140kD

Cell Pathway : Insulin_Receptor;

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],

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

Subcellular Location : Membrane ; Single-pass membrane protein .

Expression : Skeletal muscle and heart.

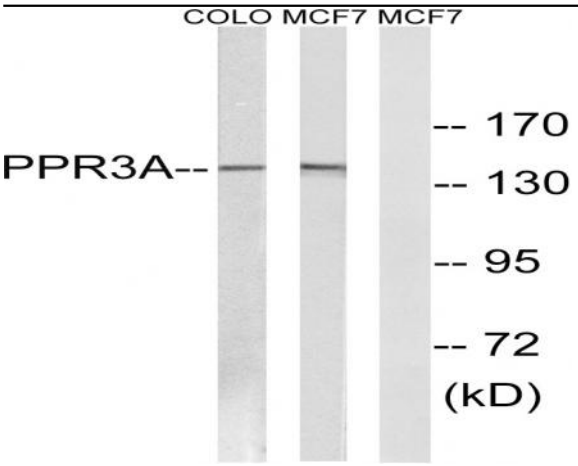
Sort : 12960

No4 : 1

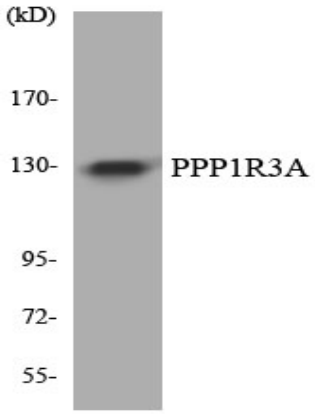
Host : Rabbit

Modifications : Unmodified

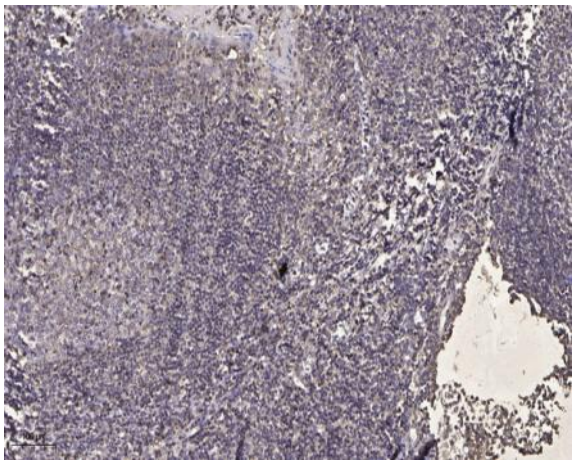
Products Images



Western blot analysis of lysates from MCF-7 and COLO cells, using PPP1R3A Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using PPP1R3A antibody.



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