Best Tools for immunology Research

IPMK Polyclonal Antibody

Catalog No :	YT2384
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	IPMK
Fields :	>>Inositol phosphate metabolism;>>Metabolic pathways;>>Phosphatidylinositol signaling system
Gene Name :	IPMK
Protein Name :	Inositol polyphosphate multikinase
Human Gene Id :	253430
Human Swiss Prot No :	Q8NFU5
Mouse Gene Id :	69718
Mouse Swiss Prot No :	Q7TT16
Rat Gene Id :	171458
Rat Swiss Prot No :	Q99NI4
Immunogen :	The antiserum was produced against synthesized peptide derived from human IPMK. AA range:311-360
Specificity :	IPMK Polyclonal Antibody detects endogenous levels of IPMK protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

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 : 47kD

Cell Pathway : Inositol phosphate metabolism;

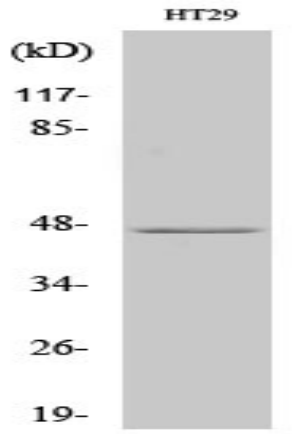
Background : This gene encodes a member of the inositol phosphokinase family. The encoded protein has 3-kinase, 5-kinase and 6-kinase activities on phosphorylated inositol substrates. The encoded protein plays an important role in the biosynthesis of inositol 1,3,4,5,6-pentakisphosphate, and has a preferred 5-kinase activity. This gene may play a role in nuclear mRNA export. Pseudogenes of this gene are located on the long arm of chromosome 13 and the short arm of chromosome 19. [provided by RefSeq, Dec 2010],

Function : catalytic activity:ATP + 1D-myo-inositol 1,4,5,6-tetrakisphosphate = ADP + 1D-myo-inositol 1,3,4,5,6-pentakisphosphate.,catalytic activity:ATP + 1D-myo-inositol 1,4,5-trisphosphate = ADP + 1D-myo-inositol 1,4,5,6-tetrakisphosphate.,function:Inositol phosphate kinase with a broad substrate specificity. Has a preference for inositol-1,4,5-trisphosphate (Ins(1,4,5)P3) and inositol 1,3,4,6-tetrakisphosphate (Ins(1,3,4,6)P4).,similarity:Belongs to the inositol phosphokinase (IPK) family.,tissue specificity:Ubiquitous, with the highest expression in skeletal muscle, liver, placenta, lung, peripheral blood leukocytes, kidney, spleen and colon.,

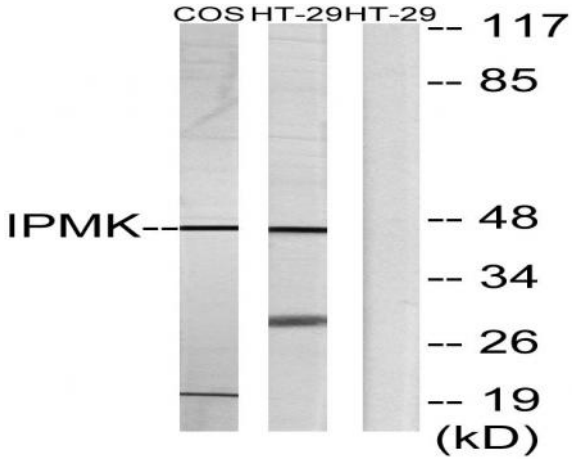
Subcellular Location : Nucleus .

Expression : Ubiquitous, with the highest expression in skeletal muscle, liver, placenta, lung, peripheral blood leukocytes, kidney, spleen and colon.

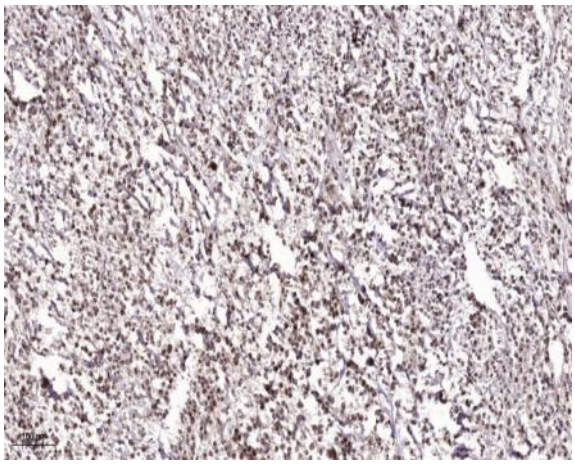
Products Images



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



Western blot analysis of lysates from HT-29 and COS7 cells, using IPMK Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 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).