

Product Name: InsP 3-kinase C Rabbit Polyclonal Antibody**Catalog #: APRab12630**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight	102kDa

Antigen Information

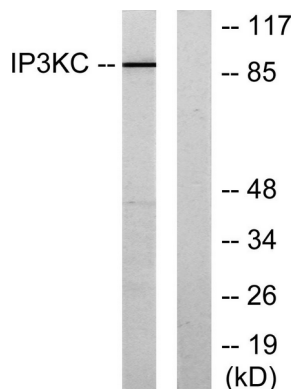
Gene Name	ITPKC
Alternative Names	ITPKC; IP3KC; Inositol-trisphosphate 3-kinase C; Inositol 1; 4,5-trisphosphate 3-kinase C; IP3 3-kinase C; IP3K C; InsP 3-kinase C
Gene ID	80271.0
SwissProt ID	Q96DU7
Immunogen	The antiserum was produced against synthesized peptide derived from human IP3KC. AA range:221-270

Background

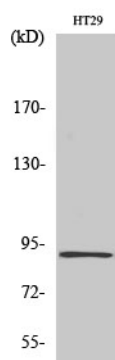
This gene encodes a member of the inositol 1,4,5-trisphosphate [Ins(1,4,5)P(3)] 3-kinase family of enzymes that catalyze the phosphorylation of inositol 1,4,5-trisphosphate to 1,3,4,5-tetrakisphosphate. The encoded protein is localized to the nucleus and cytoplasm and has both nuclear import and nuclear export activity. Single nucleotide polymorphisms in this gene are associated with Kawasaki disease.[provided by RefSeq, Sep 2009],catalytic activity:ATP + 1D-myo-inositol 1,4,5-trisphosphate = ADP + 1D-myo-inositol 1,3,4,5-tetrakisphosphate.,disease:Genetic variations in ITPKC influence susceptibility to Kawasaki disease [MIM:611775]; also known as mucocutaneous lymph node syndrome or infantile polyarteritis. Kawasaki disease is an acute, self-limited vasculitis of infants and children characterized by prolonged fever unresponsive to antibiotics, polymorphous skin rash, erythema of the oral mucosa, lips, and tongue, erythema of the palms and soles, bilateral conjunctival injection, and cervical lymphadenopathy. Coronary artery aneurysms develop in 15 to 25% of those left untreated, making Kawasaki disease the leading cause of acquired heart disease among children in developed countries.,enzyme regulation:Activated by calcium/calmodulin. Inhibited by high concentrations of the substrate Ins(1,2,4)P3, and allosterically activated by the product Ins(1,3,4,5)P4.,function:Can phosphorylate inositol 2,4,5-trisphosphate to inositol 2,4,5,6-tetraphosphate.,similarity:Belongs to the inositol phosphokinase (IPK) family.,subcellular location:Shuttles actively between nucleus and cytoplasm with both nuclear import and nuclear export activity.,tissue specificity:Highly expressed in pancreas, skeletal muscle, liver, placenta and weakly in kidney and brain.,

Research Area

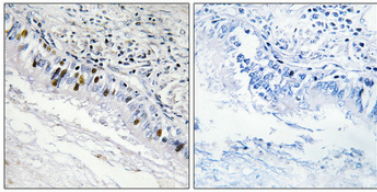
Image Data



Western blot analysis of lysates from HT-29 cells, using IP3KC Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using InsP 3-kinase C Polyclonal Antibody diluted at 1: 2000



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.