



InsP 3-kinase C Polyclonal Antibody

Catalog No	BYab-14788
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	ITPKC
Protein Name	Inositol-trisphosphate 3-kinase C
Immunogen	The antiserum was produced against synthesized peptide derived from human IP3KC. AA range:221-270
Specificity	InsP 3-kinase C Polyclonal Antibody detects endogenous levels of InsP 3-kinase C protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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
Observed Band	102kD
Cell Pathway	Nucleus . Cytoplasm . 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.
Function	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

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countries.,enzyme regulation:Activated by calcium/calmodulin. Inhibited by high concentrations of the substrate Ins(1,2,4)P₃, and allosterica

Background

This gene encodes a member of the inositol 1,4,5-trisphosphate [Ins(1,4,5)P₃] 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],

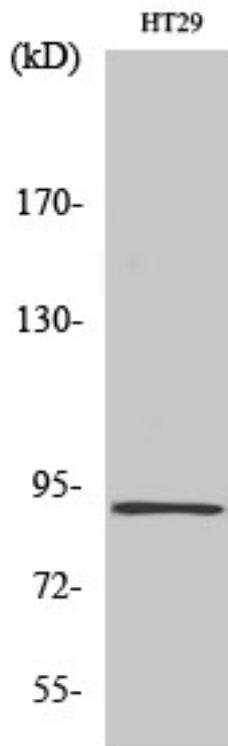
matters needing attention

Avoid repeated freezing and thawing!

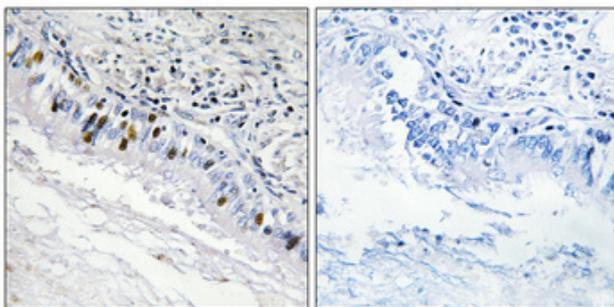
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

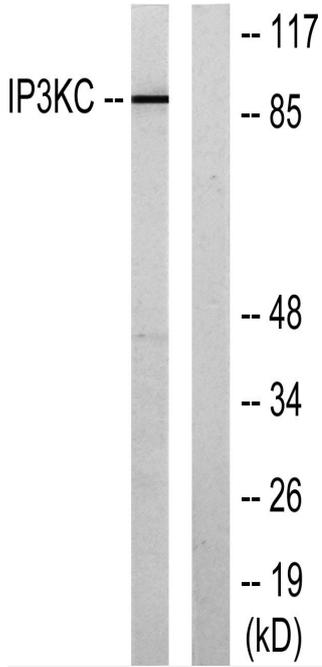


Western Blot analysis of various cells using InsP₃ 3-kinase C Polyclonal Antibody diluted at 1:2000



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4^o 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.

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