Product Name: IP3KA Rabbit Polyclonal Antibody
Catalog #: APRab12698

Summary

Production Name	IP3KA Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ITPKA
Alternative Names	ITPKA; Inositol-trisphosphate 3-kinase A; Inositol 1; 4,5-trisphosphate 3-kinase A; IP3 3-kinase A; IP3K A; InsP 3-kinase A
Gene ID	3706.0
SwissProt ID	P23677.The antiserum was produced against synthesized peptide derived from human IP3KA. AA range:396-445

Application

Dilution Ratio	WB 1:500-2000 ELISA 2000-20000
Molecular Weight	52kD

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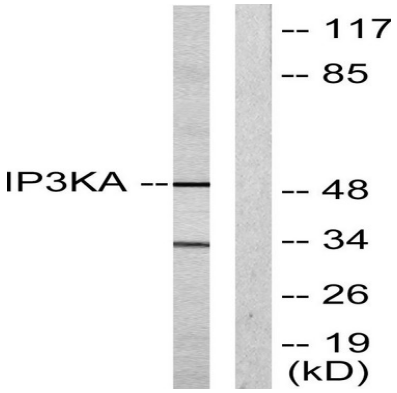
Background

Regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P4. The activity of the inositol 1,4,5-trisphosphate 3-kinase is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity. It is also a substrate for the cyclic AMP-dependent protein kinase, calcium/calmodulin- dependent protein kinase II, and protein kinase C in vitro.[provided by RefSeq, Apr 2011],catalytic activity:ATP + 1D-myo-inositol 1,4,5-trisphosphate = ADP + 1D-myo-inositol 1,3,4,5-tetrakisphosphate.,enzyme regulation:IP3K is activated by calmodulin.,similarity:Belongs to the inositol phosphokinase (IPK) family.,

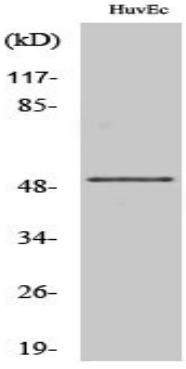
Research Area

Inositol phosphate metabolism;Calcium;Phosphatidylinositol signaling system;

Image Data



Western blot analysis of lysates from HUVEC cells, using IP3KA Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using IP3KA Polyclonal Antibody

Note

For research use only.

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