

Anti-ITPK1 Rabbit Monoclonal Antibody

Introduction

Kinase that can phosphorylate various inositol polyphosphate such as Ins(3,4,5,6)P4 or Ins(1,3,4)P3. Phosphorylates Ins(3,4,5,6)P4 at position 1 to form Ins(1,3,4,5,6)P5. This reaction is thought to have regulatory importance, since Ins(3,4,5,6)P4 is an inhibitor of plasma membrane Ca2+-activated CI- channels, while Ins(1,3,4,5,6)P5 is not. Also phosphorylates Ins(1,3,4)P3 on O-5 and O-6 to form Ins(1,3,4,6)P4, an essential molecule in the hexakisphosphate (InsP6) pathway. Also acts as an inositol polyphosphate phosphatase that dephosphorylate Ins(1,3,4,5)P4 and Ins(1,3,4,6)P4 to Ins(1,3,4,5)P3, and Ins(1,3,4,5,6)P5 to Ins(3,4,5,6)P4. May also act as an isomerase that interconverts the inositol tetrakisphosphate isomers Ins(1,3,4,5)P4 and Ins(1,3,4,6)P4 in the presence of ADP and magnesium. Probably acts as the rate-limiting enzyme of the InsP6 pathway. Modifies InsP6-alpha-induced apoptosis by interfering with the activation of InsP6-associated death domain.

Product parameters

Alternative Names	ITRPK1	Actieve Perfection, Explore the Unknown.
Gene ID	3705	
Gene Name	ITPK1	
SwissProt ID	Q13572	
Host	Rabbit	
Reactivity	Human	
Molecular Weight	Calculated MW: 46 kDa; Observed MW: 46 kDa	
Conjugation	Unconjugated	
Ex	-	
Em	-	
Modification	Unmodified	
Clonality	IgG	
Isotype	Monoclonal Antibody	
Clonality No.	AP-20B8B1	
Form	Liquid	
Concentration	See label	
Carrier	Carrier Not Free	
Immunogen	A synthetic peptide of human ITPK1	

Purification	Affinity Purified	
Buffer System	50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA.	
Application	WB, IP	
Dilution Ratio	WB: 1/500-1/1000 IP: 1/20	
Research Field	Signal Transduction	
Product Categories	Primary antibody	
S <mark>hippi</mark> ng	Blue ice APEXBIO	
Storage	-20°C	
Expiration Date	12 months	
Note	Please avoid freeze-thaw cycles.	

Protocol

Configure the product according to the application range and recommended dilution ratio.

*Note: The primary antibody dilution buffer options: WB - Primary Antibody Dilution Buffer (Cat. #: K1200, Not for HRP/AP conjugated antibodies), Immunostaining - Immunol Staining Primary Antibody Dilution Solution (Cat. #: K4655).

Note

1. This product is for scientific research use only.















