Product Name: TNNI3K Rabbit Polyclonal Antibody
Catalog #: APRab19105

Summary

Production Name	TNNI3K Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,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	TNNI3K
Alternative Names	TNNI3K; CARK; Serine/threonine-protein kinase TNNI3K; Cardiac ankyrin repeat kinase; Cardiac troponin I-interacting kinase; TNNI3-interacting kinase
Gene ID	51086.0
SwissProt ID	Q59H18.The antiserum was produced against synthesized peptide derived from human TNNI3K. AA range:301-350

Application

Dilution Ratio	WB 1:500-2000, IHC-P 1:100-1:300, ELISA 1:10000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	

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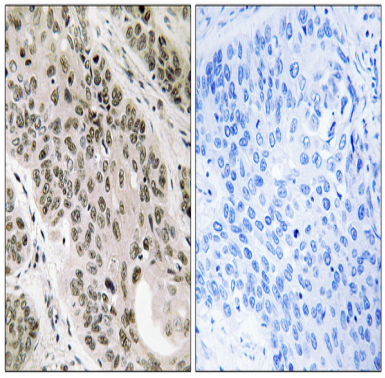
Background

This gene encodes a protein that belongs to the MAP kinase kinase kinase (MAPKKK) family of protein kinases. The protein contains ankyrin repeat, protein kinase and serine-rich domains and is thought to play a role in cardiac physiology. [provided by RefSeq, Sep 2012],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,catalytic activity:GTP + beta-L-fucose 1-phosphate = diphosphate + GDP-L-fucose.,cofactor:Magnesium.,function:Catalyzes the formation of GDP-L-fucose from GTP and L-fucose-1-phosphate. Functions as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids.,function:May play a role in cardiac physiology.,PTM:Autophosphorylated.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 10 ANK repeats.,subcellular location:Expressed at lower levels in the cytoplasm.,subunit:Interacts with TNNI3, ACTC, ACTA1, MYBPC3, AIP, BABP3 and HADHB.,tissue specificity:Expressed in many tissues.,tissue specificity:Highly expressed in both adult and fetal heart.,

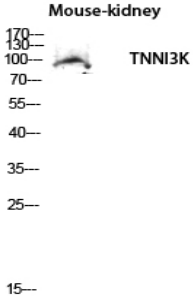
Research Area

Fructose and mannose metabolism;Amino sugar and nucleotide sugar metabolism;

Image Data



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using TNNI3K Antibody. The picture on the right is blocked with the synthesized peptide.



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Western blot analysis of Mouse-kidney lysis using TNNI3K antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000

Note

For research use only.