



Rabbit Anti-TNNI3K antibody

SL9458R

Product Name:	TNNI3K
Chinese Name:	丝氨酸/苏氨酸蛋白激酶TNNI3K抗体
Alias:	Cardiac ankyrin repeat kinase; CARK; MGC142099; MGC33828; Serine/threonine protein kinase TNNI3K; Serine/threonine-protein kinase TNNI3K; TNNI3K_HUMAN; TNNI3 interacting kinase; TNNI3-interacting kinase; Tnni3k.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	93kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TNNI3K:1-100/835
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	TNNI3K, also known as CARK, is a 936 amino acid serine/threonine-protein kinase that is highly expressed in heart. Overexpression of TNNI3K leads to improved cardiac function by enhancing beating frequency and increasing contractile force and epinephrine response. TNNI3K suppresses phosphorylation of cardiac troponin I and p38/JNK-mediated apoptosis, therefore protecting the myocardium from ischemic

injury. Administration of TNNI3K to mice with myocardial infarction improves cardiac performance and attenuates ventricular remodeling, suggesting that TNNI3K could be a promising target in the treatment of cardiac diseases. There are four isoforms of TNNI3K that are produced as a result of alternative splicing events.

Function:

May play a role in cardiac physiology.

Subunit:

Interacts with TNNI3, ACTC, ACTA1, MYBPC3, AIP, BABP3 and HADHB.

Subcellular Location:

Nucleus. Cytoplasm. Expressed at lower levels in the cytoplasm.

Tissue Specificity:

Highly expressed in both adult and fetal heart.

Post-translational modifications:

Autophosphorylated.

Similarity:

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.

Contains 10 ANK repeats.

Contains 1 protein kinase domain.

SWISS:

Q59H18

Gene ID:

51086

Database links:

[Entrez Gene: 51086](#)Human

[Entrez Gene: 435766](#)Mouse

[Entrez Gene: 295531](#)Rat

[SwissProt: Q59H18](#)Human

[SwissProt: Q5GIG6](#)Mouse

[SwissProt: Q7TQP6](#)Rat

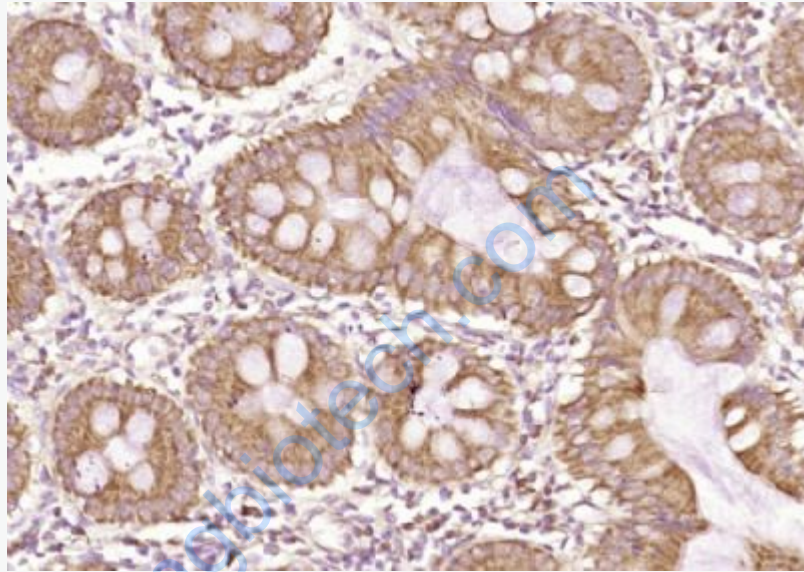
[Unigene: 729320](#)Human

[Unigene: 210428](#)Mouse

[Unigene: 3434Rat](#)

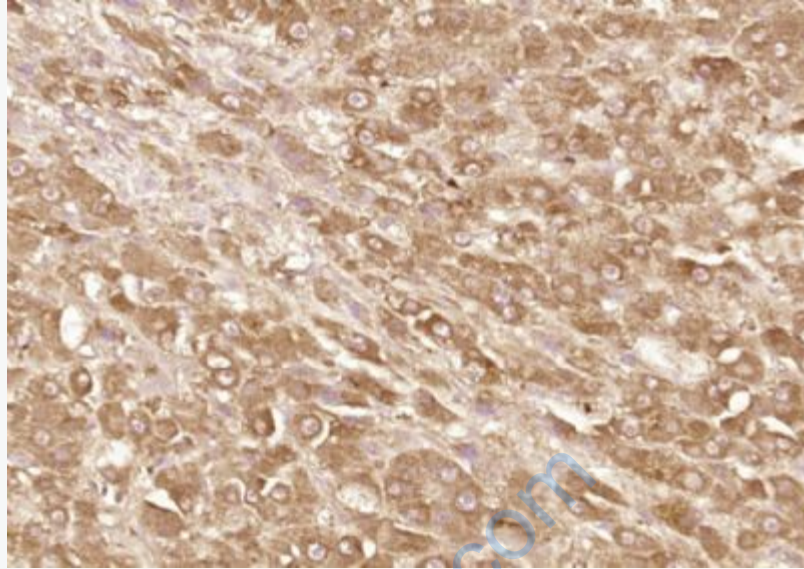
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

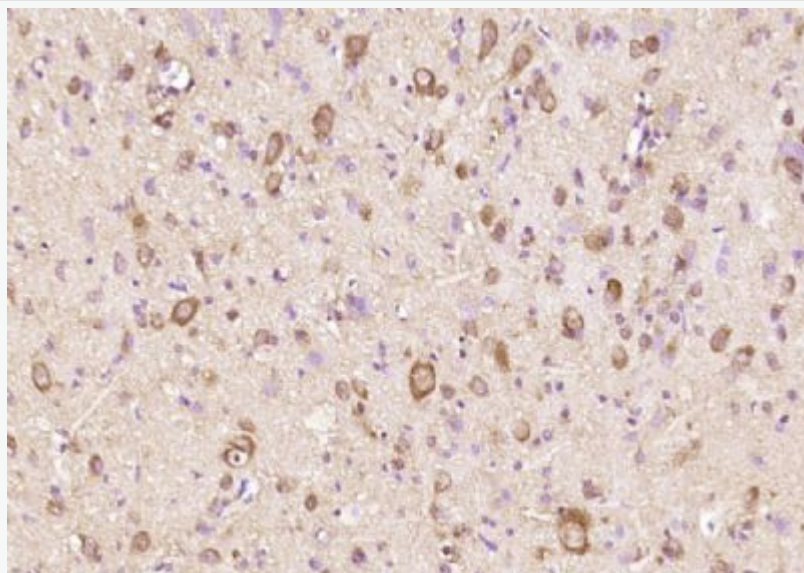


Picture:

Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TNNI3K) Polyclonal Antibody, Unconjugated (SL9458R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TNNI3K) Polyclonal Antibody, Unconjugated (SL9458R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TNNI3K) Polyclonal Antibody, Unconjugated (SL9458R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

www.sunlongbiotech.com